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TECHNICAL MANUAL

ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT
MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST

FOR

COUNTERMEASURES SET, SPECIAL PURPOSE
AN/MLQ-34
PART NUMBER 5051430-1
NSN 5865-01-008-6629

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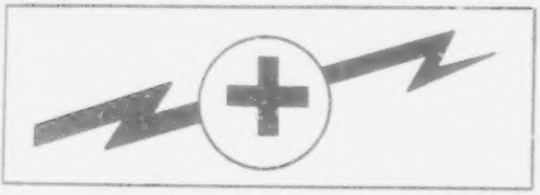

WARNING

HIGH VOLTAGE

is used in the operation of this equipment

DEATH ON CONTACT

may result if personnel fail to observe safety precautions

Never work on electronic equipment unless there is another person nearby who is familiar with the operation and hazards of the equipment and who is competent in administering first aid. When the technician is aided by operators, he must warn them about dangerous areas.

Whenever possible, the power supply to the equipment must be shut off before beginning work on the equipment. Take particular care to ground every capacitor likely to hold a dangerous potential. When working inside the equipment, after the power has been turned off, always ground every part before touching it.

Be careful not to contact high-voltage connections of 115 volt ac input connection when installing or operating this equipment.

Whenever the nature of the operation permits, keep one hand away from the equipment to reduce the hazard of current flowing through vital organs of the body.

WARNING: Do not be misled by the term "low voltage." Potentials as low as 50 volts may cause death under adverse conditions.

For Artificial Respiration, refer to FM 21-11, First Aid for Soldiers.

TM 32-5865-060-24&P-2
C 1

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HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 22 April 1988

ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR COUNTERMEASURES SET, SPECIAL PURPOSE AN/MLQ-34 PART NUMBER 5051430-1 NSN 5865-01-008-6629

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Sheet 59 through Sheet 68	Sheet 59 through Sheet 68
C-3 through C-16	C-3 through C-16
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HEADQUARTERS
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WASHINGTON, D.C *31 May 1984*

Organizational, Direct Support and General Support Maintenance Manual

COUNTERMEASURES SET, SPECIAL PURPOSE AN/MLQ-34

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CHAPTER 4

DIRECT SUPPORT MAINTENANCE INSTRUCTIONS

Section I. GENERAL

4-1. **SCOPE.** This chapter provides the information for the performance of Direct Support (DS) maintenance defined by the Maintenance Allocation Chart (MAC). DS maintenance tasks, other than removal and installation procedures, for certain system equipment is covered in other technical manuals. Table 4-1 lists items of Government Furnished Equipment (GFE) installed in the system. Units and assemblies mounted as part of the XM-1015 Carrier are listed in table 4-2. Other units for which DS maintenance tasks are described outside this manual are listed in table 4-3. A complete list of technical manuals and other publications required to support the equipment listed in table 4-1 through table 4-3 is provided in Appendix A.

NOTE

> In addition to performing the maintenance tasks described in this chapter, DS maintenance personnel will provide forward maintenance support and technical assistance to the organizational level through the use of mobile Maintenance Support Teams (MSTs).

Section II. TOOLS AND EQUIPMENT

4-2. **TOOLS AND EQUIPMENT.** Refer to the MAC in Appendix B and the Repair Parts and Special Tools List (RPSTL) in Appendix C.

Section III. TROUBLESHOOTING

4-3. **SYSTEM TROUBLESHOOTING.** Troubleshooting the system electronic hardware is facilitated by the software controlled Built-In-Test Equipment (BITE). Test programs are stored in computer memory and the tests are run by pressing pushbutton switches on the CU. The test results are indicated on the CU. The CPU displays data, obtained from running the BITE, in 'fault page' format. The 'fault page' format is described in the System Operator's Manual, TM 32-5865-060-10. The data displayed in the various fields is used as starting points for the troubleshootin procedures presented in a Fault Logic Flowchart (FLFC). Troubleshooting of electromechanical, power supply, and system functions not tested by BITE is addressed by providing a FLFC for each system set-up task. These FLFC identify symptoms observed while performing the task. XM-1015 Carrier, Heat Exchanger, Antenna System, and Transmitter troubleshooting procedures are provided in separate manuals. These are referenced in the FLFC. Table 4-4 provides a list of the technical manuals required to troubleshoot the system in accordance with the FLFC. The System Interconnect Diagram (FO-10) and Cable List (table 4-16) are provided to support troubleshooting.

Table 4-1. Government Furnished Equipment (GFE)

- Receiver-Transmitter, Radio RT-1167/ARC-164(V) (A1, A2)
- Radio Set Comprising:
  - Receiver-Transmitter, Radio RT-524/VRC (A30)
  - Mount, Radio Set, MT-1029/VRC (A7)
  - Antenna AS-1729/VRC (Unit 6)
  - Matching Unit-Base Antenna MX-6707/VRC (p/o Unit 6)
  - Microphone, Dynamic M-80/U (MK1)
  - Headset H-140/U (HT1, HT2)
  - Amplifier, Audio Frequency AM-1780/VRC (2A1A3A1)
  - Control, Intercommunication Set C-2297/VRC (2A1A3A3)
  - Control, Intercommunication Set C-2298/VRC (2A1A3A2, 1A15)
  - Suppressor, Electrical Transient MX-7778A/GRC (2A1A8)
  - Loudspeaker, LS-454/U (2A1A3A4, 1LS1)
  - Handset H-189/GR (HS1)
- Pneumatic Component Assembly MX-10204/G (1A8)
- Encryptor, Decryptor KY-57 (A3)
- Power Adapter HYP-57 (PS1)
- Junction Box, J-3513/U (A38)
- Encoder/Decoder KG-45 (A5)
- Recorder-Reproducer Set AN/UNH-17 (A22)
- Display and Keyboard AN/UYQ-10 (A31A1, A34A1)
- Computer, Digital AN/UYK-19B (A6A1)

Table 4-2. Carrier, Cargo XM-1015 (2A1)

Generator Set (2A1A1) Comprising:

Generator (2A1A1A1)

Gear Assy, Speed Increaser (2A1A1A2)

Control, Generator (2A1A1A3)

Regulator Unit, Power (2A1A1A4)

Interconnecting Box (2A1A2)

Panel, Communication Equipment (2A1A3)

Panel, Indicator (Driver) (2A1A4)

Ground Rod Driver, Elec Hammer (2A1A5)
MX-10210/MLQ

Motor-Generator Assy (2A1A6)

Circuit Breaker Assy (2A1A7)

Cable Assy Set, Intercon.

Maintenance Kit, Carrier

Table 4-3. Units With Separate Manuals

Positioner, Antenna
TG-252/MLQ-34 (Unit 3)

Antenna, Log Periodic
AS-3500/G (Unit 4)

Air Conditioner
HD-1092/U (1A11)

Transmitter, Countermeasures
T-1439/MLQ-34 (Units A35, A36, A37)

Control Amplifier
C-10967/MLQ-34 (Units A12, A13, A14)

Switching Unit, Automatic Mode
SA-2334/MLQ-34 (Unit A10)

Receiver Set
R-2197/MLQ-34 (Unit A25)

Table 4-3. Units With Separate Manuals - Continued

Control, Radio Frequency
C-10966/MLQ-34 (Unit A21)

Control-Display, Receiver
C-10935/MLQ-34 (Unit A33)

Controller, Data Link
C-11000/MLQ-34 (Unit A24)

Control-Indicator
C-10965/MLQ-34 (Unit A32)

Shelter, Electrical Equipment
S-595/G (Unit 1)

Control, Signal Interface
C-11001/MLQ-34 (Unit A20)

Heat Exchanger
HD-1089/MLQ-34 (Unit 7)

Modem, Data Link
MD-1115/MLQ-34 (Unit A4)

Processor, Signal Data
MX-10214/MLQ-34 (Unit A23)

Exciter
O-1801/MLQ-34 (Units A15, A16, A17)

Receiver
R-2144A/URR (A25A1 thru A25A4)

Table 4-4. FLFC References

Task	Fault symptom	Reference
Carrier Set-Up	All	1. TM 9-2350-247-34, Direct and General Support Maintenance Manual for Carrier XM1015.
Generator Set-Up	Generator Control Panel Faults	Same as 1. above.
	Pneumatic Component Assembly Faults	2. TM 11-5985-365-24, Organizational, Direct and General Support Maintenance Manual for Mast Erection Group OA-9052(V)

Table 4-4. FLFC References - Continued

Task	Fault symptom	Reference
Generator Set-up (Cont'd)	Radio Set AN/VRC-46 Faults	3. TM 11-5820-401-12, Operator's and Organizational Maintenance Manual Including Repair Parts and Special Tools Lists for Radio Sets AN/VRC-12, AN/VRC-43, AN/VRC-44, AN/VRC-45, AN/VRC-46, AN/VRC-47, AN/VRC-48, AN/VRC-49, AN/VRC-54, AND AN/VRC-55; MOUNTING MT-1029/VRC AND MOUNTING MT-189/VRC ANTENNA AT-912/VRC; CONTROL, FREQUENCY SELECTOR C-2742/VRC AND CONTROL, RADIO SET C-2299/VRC.
System Start-up	No DC power input to shelter	Same as 1. above.
	Shelter DC distribution faults	4. TM 32-5410-002-24&P, Organizational, Direct and General Support Maintenance Manual for Shelter S-595/G.
	Carrier AC distribution faults	Same as 1. above.
	Shelter AC distribution faults	Same as 4. above.
	Mast deploy faults	Same as 2. above.
	Antenna deploy faults	5. TM 32-5985-001-24&P, Organizational, Direct and General Support Maintenance Manual for Antenna Log Periodic AS-3500/G
	Heat Exchanger faults	6. TM 32-5865-062-24&P, Organizational, Direct and General Support Maintenance Manual for Heat Exchanger HD-1089/MLQ-34
	Data Link Radio faults	7. TM 11-5821-311-12, Operator's and Organizational Maintenance Manual for Receiver-Transmitter Radio RT-1167/ARC-164(V)

Table 4-4. FLFC References - Continued

Task	Fault symptom	Reference
System Set-Up	Air Conditioner faults	8. TM 5-4120-370-14, Organizational, Direct and General Support Maintenance Manual for Air Conditioner HD-1092/U
	Transmitters	9. TM 32-5865-073-24&P, Organizational, Direct and General Support Maintenance Manual for Transmitter, T-1439/MLQ-34

4-3.1. Early Termination Message. When running the BITE test, an EARLY TERMINATION message may appear in the message field on the TACJAM FAULT PAGE. This occurs because the CPU cannot complete all the tests described in table 3-2. The message is displayed when the following problems occur:

a. RCU bus errors. The most likely causes are as follows:

(1) The DLC.

(2) A disconnected, loose, or damaged RCU bus cable.

(3) A faulty RCU Bus Termination assembly.

b. RC Bus A errors. The most likely causes as follows:

(1) The DLC.

(2) A disconnected, loose or damaged RC Bus A cable.

c. The CPU cannot find a 'good' Exciter or a 'good' Receiver.

d. the CPU cannot find a 'good' Duplexer.

4-3.2 High VSWR Problems. The three ACU continuously monitor forward and reflected transmitter power. When the VSWR exceeds 3:1, several events occur: RF drive to the transmitter is reduced; the ACU reports the problem to the CPU; the CPU lights the affected Jammer's TEST/FAULT indicator on the CU; the CPU updates the TACJAM FAULT PAGE. All high VSWR problems are the result of a mismatch between the transmitter(s) and the load. Generally, a VSWR greater than 3:1 will be due to an open or short circuit. If the problem is in the common load (i.e., more than one transmitter is affected), it may be solved by inspection as described below:

CAUTION

To avoid damage to equipment, ensure all transmitters are switched off before carrying out the following procedure.

NOTE

Torque requirement for SC type connectors is 20 - 26 in-lbs.

a. Inspect antennas as follows:

   (1) Check for visible signs of damage to boom and elements.

   (2) Disconnect cable W411 from antenna feed. Check antenna feed connector is clean and undamaged.

b. Inspect cable W411 as follows:

   (1) Check for visible signs of damage along entire length.

   (2) Disconnect from CP11 in mast well. Use a multimeter to check for continuity and short circuit.

   (3) Check connectors are clean and undamaged.

   (4) Reconnect at antenna feed, ensure connector is properly mated and secure.

c. Inspect coupler CP11 in mast well as follows:

   (1) Check CP11 is clean and undamaged.

   (2) Disconnect W150 from CP11 inside shelter. Use a multimeter to check CP11 for continuity and short circuit.

   (3) Reconnect W411 to CP11, ensure connector is properly mated and secure.

d. Inspect cable W150 as follows:

   (1) Disconnect from A10J3. Use a multimeter to check for continuity and short circuit.

   (2) Check the connectors at each end are clean and undamaged.

   (3) Reconnect to A10J3 and CP11, ensure connectors are properly mated and secure.

e. Inspect cables W152-157, connections between A10 and A11 as follows:

   (1) Check all connectors are properly mated and secure. If a loose connector is found check it out for damage, steps (2) through (4).

   (2) Disconnect cable at both ends. Use a multimeter to check for continuity and short circuit.

(3) Check connectors are clean and undamaged.

(4) Reconnect cable, ensure connectors are properly mated and secure.

f. If the problem has not been found, inspect cables W133 and W134 as follows:

(1) Remove and retain six screws, washers and DUMMY LOAD ACCESS panel.

(2) Check W133 and W134 connectors are properly mated and secure. If a loose connector is found check out the cable for damage, steps (2) through (4).

(3) Disconnect cable at both ends, refer to para 2-9.3.2 for access to LMC rear panel connections. Use a multimeter to check the cable for continuity and short circuit.

(4) Check connectors are clean and undamaged.

(5) Restore cables and replace DUMMY LOAD ACCESS panel.

g. If steps a. through f. fail to locate the problem other possible causes are listed below.

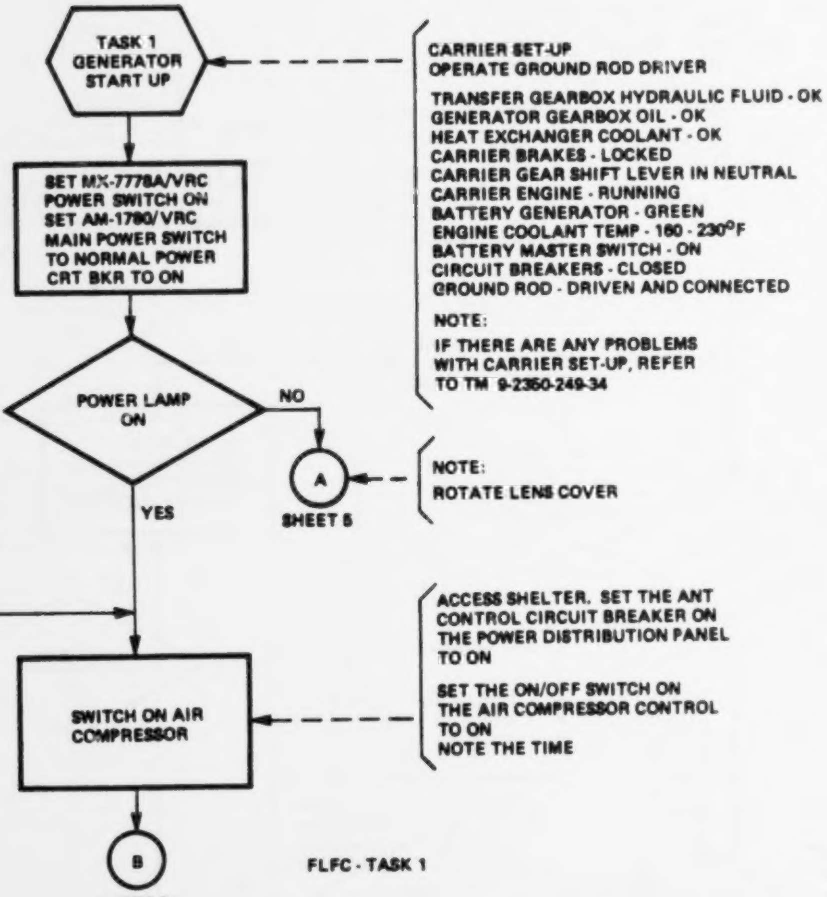
(1) Faulty AMSU.

(2) Faulty LMC.

(3) Fault Dummy Load AT1/AT2.

4-3.3 Open Loop Troubleshooting. Refer to FO-4. During normal operation FWD RF SENSE, which is a sample of forward RF power, is fed from the XMTR to the ACU. This signal is compared to a reference within the ACU to control the amplitude of LEVELLED RF to the Exciter. LEVELLED RF controls the amplitude of the RF DRIVE signal fed to the XMTR. Using this loop, RF DRIVE is always adjusted to get the desired safe XMTR output. While the ACU is providing this function it is also monitoring reflected power, driver level and status signals from the XMTR. If any potentially damaging abnormality is detected, RF DRIVE is reduced or removed. If the loop is opened during troubleshooting the ACU has no control over the RF DRIVE signal. Overdrive can easily cause damage because of the high power involved. Also, without high VSWR protection, transmission line switches, dummy loads, combiners and duplexers may be damaged if commanded to a wrong mode during the application of RF power. For these reasons open loop troubleshooting of the Jammer functional group is specifically not authorized.

4-3.4. Fault Logic Flow Charts. Refer to figures 4-1 thru 4-9. The FLFC is divided into nine tasks. These tasks are interdependent and should be performed serially. The 'go' path for each task is a checkout of certain systems functions. This path is relatively short. When there is a malfunction, the chart branches to provide a troubleshooting procedure. There are no fault symptom related entry points to these procedures. A checkout of all system functions can only be accomplished by completing all the tasks.



CARRIER SET-UP
OPERATE GROUND ROD DRIVER

TRANSFER GEARBOX HYDRAULIC FLUID - OK
GENERATOR GEARBOX OIL - OK
HEAT EXCHANGER COOLANT - OK
CARRIER BRAKES - LOCKED
CARRIER GEAR SHIFT LEVER IN NEUTRAL
CARRIER ENGINE - RUNNING
BATTERY GENERATOR - GREEN
ENGINE COOLANT TEMP - 160 - 230°F
BATTERY MASTER SWITCH - ON
CIRCUIT BREAKERS - CLOSED
GROUND ROD - DRIVEN AND CONNECTED

NOTE:

IF THERE ARE ANY PROBLEMS
WITH CARRIER SET-UP, REFER
TO TM 9-2350-249-34

NOTE:

ROTATE LENS COVER

ACCESS SHELTER. SET THE ANT
CONTROL CIRCUIT BREAKER ON
THE POWER DISTRIBUTION PANEL
TO ON

SET THE ON/OFF SWITCH ON
THE AIR COMPRESSOR CONTROL
TO ON
NOTE THE TIME

FLFC - TASK 1

57817-1

Figure 4-1. System Troubleshooting FLFC, Task 1 (Sheet 1 of 12)

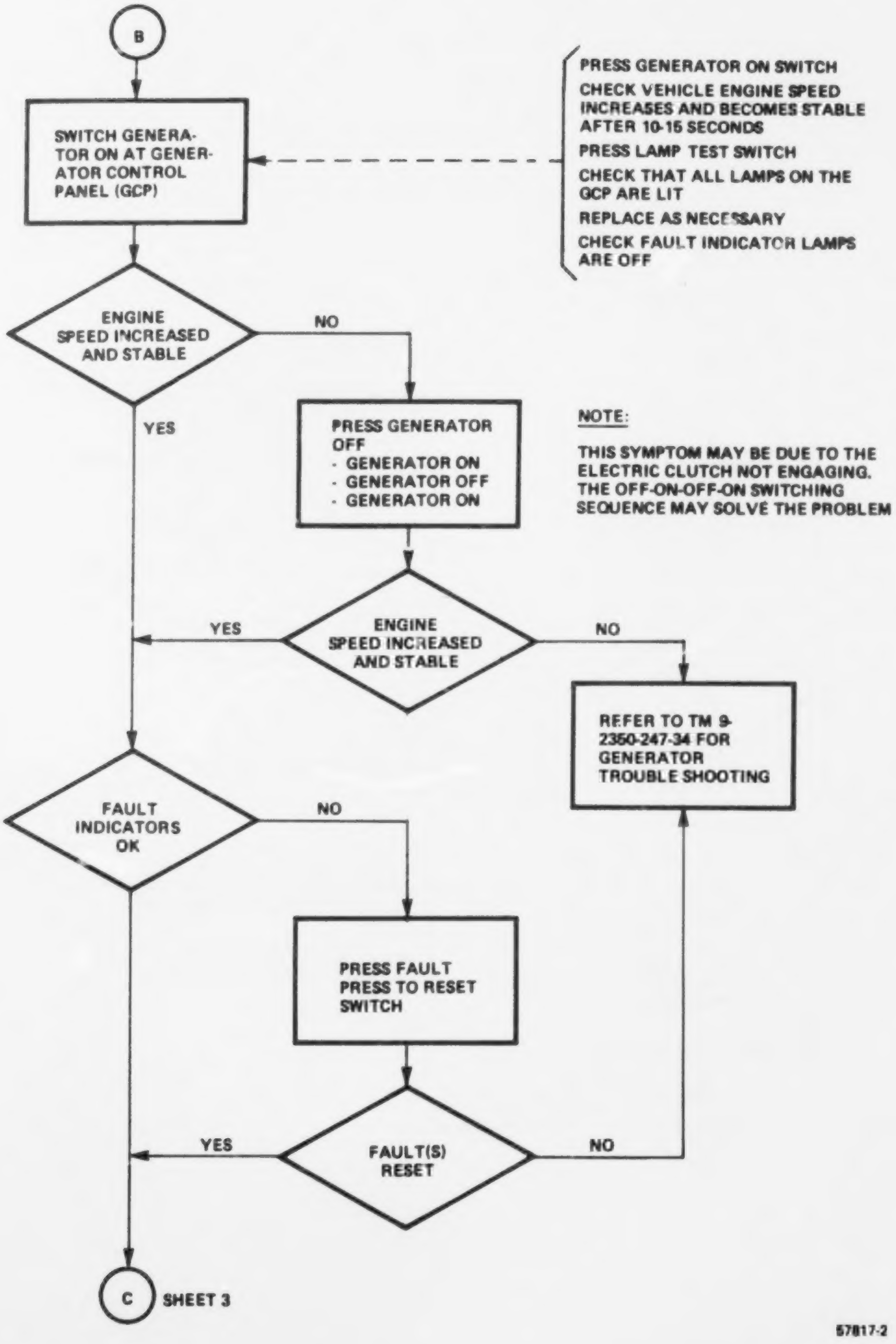

B
SWITCH GENERATOR ON AT GENERATOR CONTROL PANEL (GCP)
PRESS GENERATOR ON SWITCH
CHECK VEHICLE ENGINE SPEED INCREASES AND BECOMES STABLE AFTER 10-15 SECONDS
PRESS LAMP TEST SWITCH
CHECK THAT ALL LAMPS ON THE GCP ARE LIT
REPLACE AS NECESSARY
CHECK FAULT INDICATOR LAMPS ARE OFF
ENGINE SPEED INCREASED AND STABLE
NO
YES
PRESS GENERATOR OFF
- GENERATOR ON
- GENERATOR OFF
- GENERATOR ON
NOTE:
THIS SYMPTOM MAY BE DUE TO THE ELECTRIC CLUTCH NOT ENGAGING. THE OFF-ON-OFF-ON SWITCHING SEQUENCE MAY SOLVE THE PROBLEM
YES
ENGINE SPEED INCREASED AND STABLE
NO
REFER TO TM 9-2350-247-34 FOR GENERATOR TROUBLE SHOOTING
FAULT INDICATORS OK
NO
PRESS FAULT PRESS TO RESET SWITCH
YES
FAULT(S) RESET
NO
C
SHEET 3
57817-2

Figure 4-1. System Troubleshooting FLFC, Task 1 (Sheet 2 of 12)

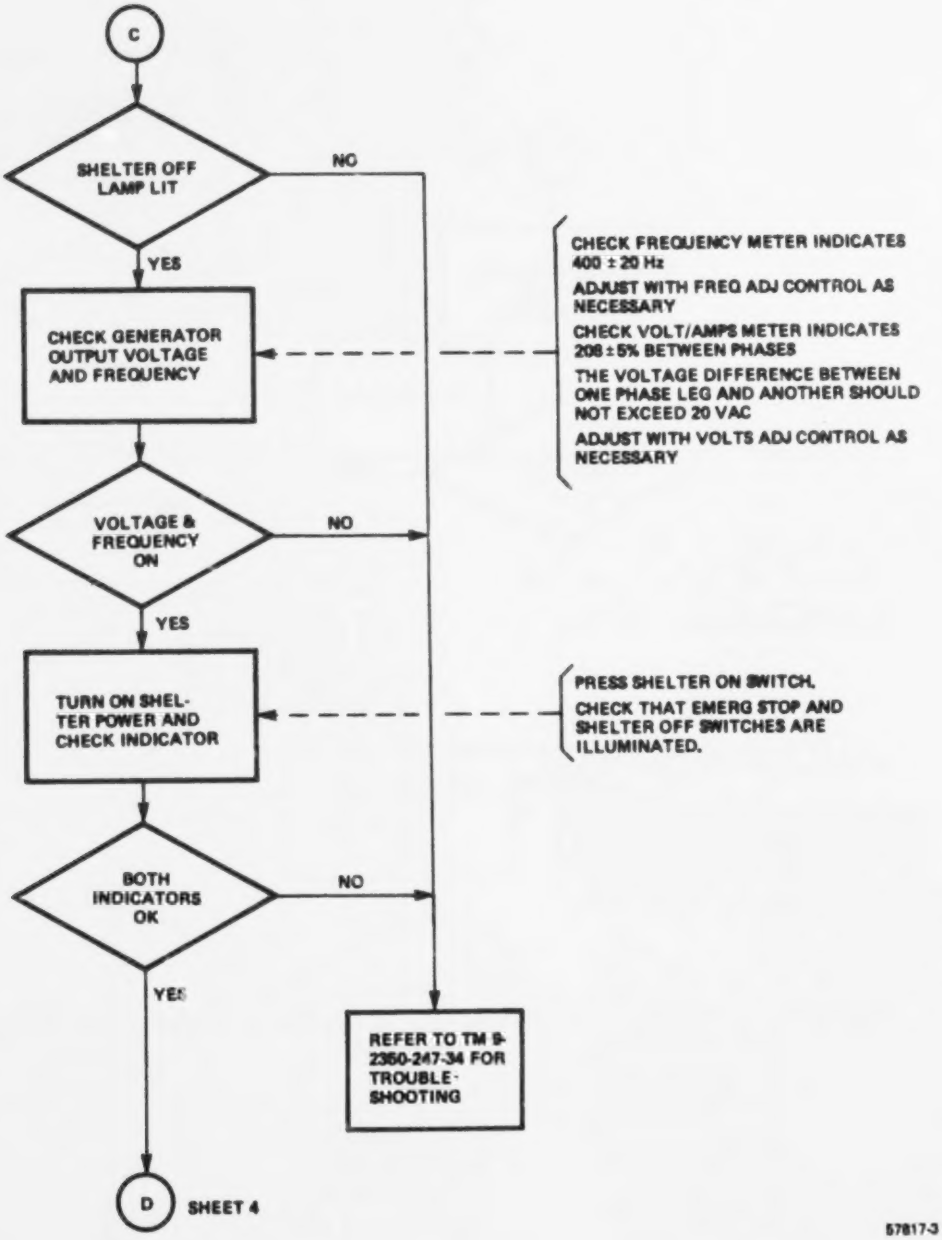

C
SHELTER OFF LAMP LIT
NO
YES
CHECK GENERATOR OUTPUT VOLTAGE AND FREQUENCY
CHECK FREQUENCY METER INDICATES 400 ± 20 Hz
ADJUST WITH FREQ ADJ CONTROL AS NECESSARY
CHECK VOLT/AMPS METER INDICATES 208 ± 5% BETWEEN PHASES
THE VOLTAGE DIFFERENCE BETWEEN ONE PHASE LEG AND ANOTHER SHOULD NOT EXCEED 20 VAC
ADJUST WITH VOLTS ADJ CONTROL AS NECESSARY
VOLTAGE & FREQUENCY ON
NO
YES
TURN ON SHELTER POWER AND CHECK INDICATOR
PRESS SHELTER ON SWITCH.
CHECK THAT EMERG STOP AND SHELTER OFF SWITCHES ARE ILLUMINATED.
BOTH INDICATORS OK
NO
YES
REFER TO TM 9-2350-247-34 FOR TROUBLESHOOTING
D
SHEET 4
57817-3

Figure 4-1. System Troubleshooting FLFC, Task 1 (Sheet 3 of 12)

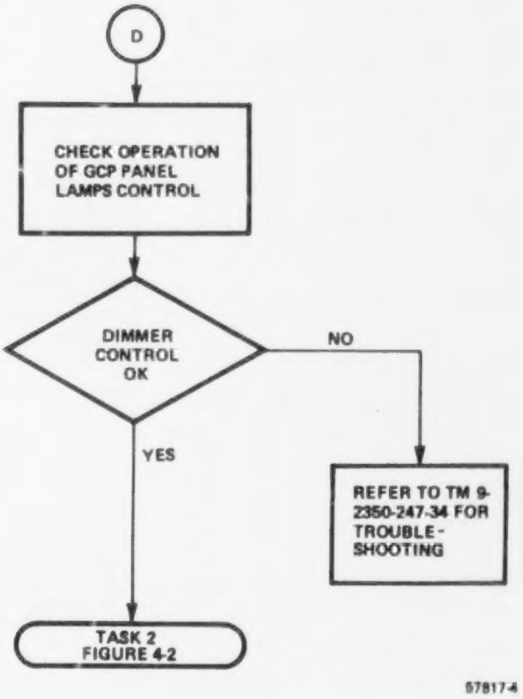
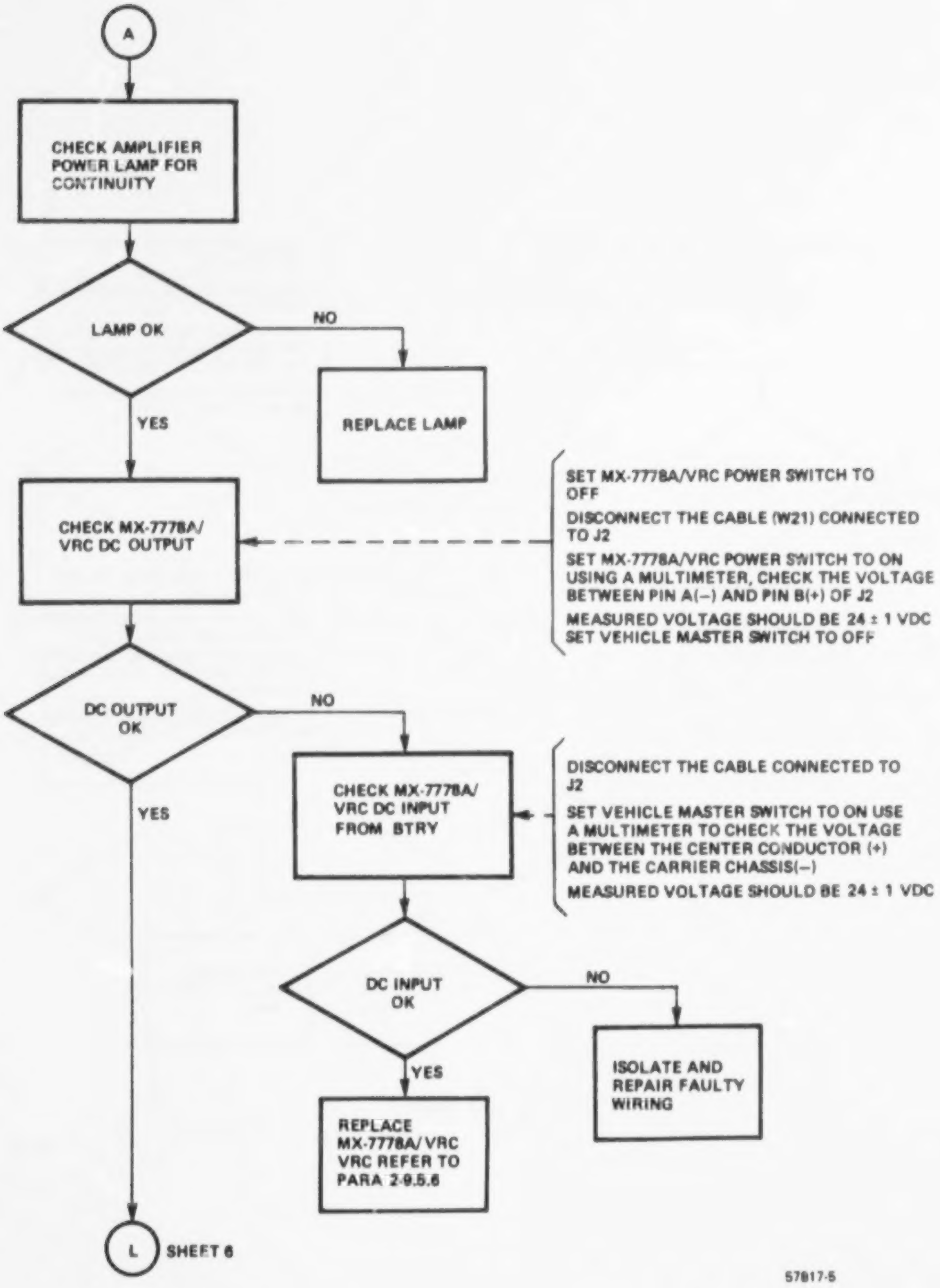

D
CHECK OPERATION OF GCP PANEL LAMPS CONTROL
DIMMER CONTROL OK
NO
YES
REFER TO TM 9-2350-247-34 FOR TROUBLE-SHOOTING
TASK 2 FIGURE 4-2
57817-4

Figure 4-1. System Troubleshooting FLFC, Task 1 (Sheet 4 of 12)


A
CHECK AMPLIFIER POWER LAMP FOR CONTINUITY
LAMP OK
NO
REPLACE LAMP
YES
CHECK MX-7778A/VRC DC OUTPUT
DC OUTPUT OK
NO
CHECK MX-7778A/VRC DC INPUT FROM BTRY
YES
DC INPUT OK
NO
YES
ISOLATE AND REPAIR FAULTY WIRING
REPLACE MX-7778A/VRC VRC REFER TO PARA 2-9.5.6
L
SHEET 6
57817-5

SET MX-7778A/VRC POWER SWITCH TO OFF

DISCONNECT THE CABLE (W21) CONNECTED TO J2

SET MX-7778A/VRC POWER SWITCH TO ON USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN A(–) AND PIN B(+) OF J2

MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC

SET VEHICLE MASTER SWITCH TO OFF

DISCONNECT THE CABLE CONNECTED TO J2

SET VEHICLE MASTER SWITCH TO ON USE A MULTIMETER TO CHECK THE VOLTAGE BETWEEN THE CENTER CONDUCTOR (+) AND THE CARRIER CHASSIS(–)

MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC

Figure 4-1. System Troubleshooting FLFC, Task 1 (Sheet 5 of 12)

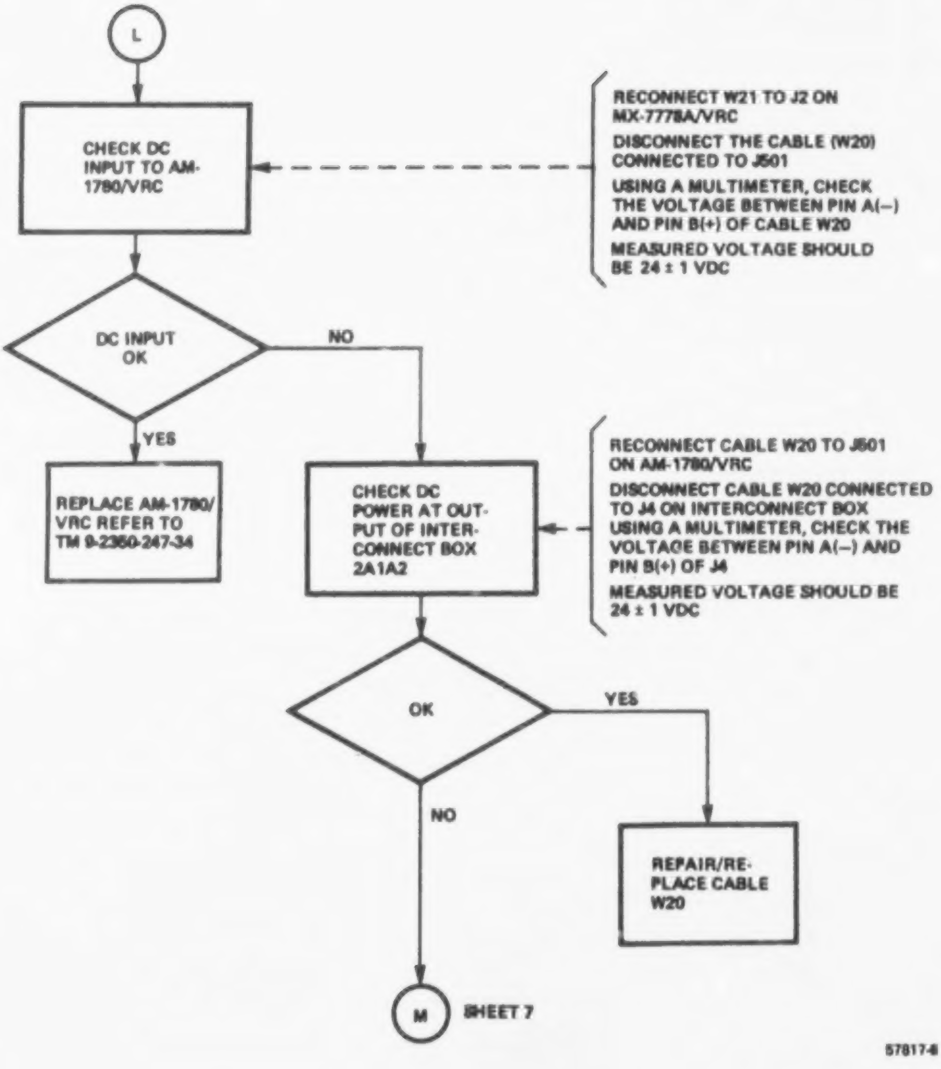

L
CHECK DC INPUT TO AM-1780/VRC
RECONNECT W21 TO J2 ON MX-7778A/VRC
DISCONNECT THE CABLE (W20) CONNECTED TO J501
USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN A(–) AND PIN B(+) OF CABLE W20
MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC
DC INPUT OK
NO
YES
REPLACE AM-1780/VRC REFER TO TM 9-2350-247-34
CHECK DC POWER AT OUTPUT OF INTERCONNECT BOX 2A1A2
RECONNECT CABLE W20 TO J501 ON AM-1780/VRC
DISCONNECT CABLE W20 CONNECTED TO J4 ON INTERCONNECT BOX
USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN A(–) AND PIN B(+) OF J4
MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC
OK
YES
NO
REPAIR/REPLACE CABLE W20
M
SHEET 7
57817-6

Figure 4-1. System Troubleshooting FLFC, Task 1 (Sheet 6 of 12)

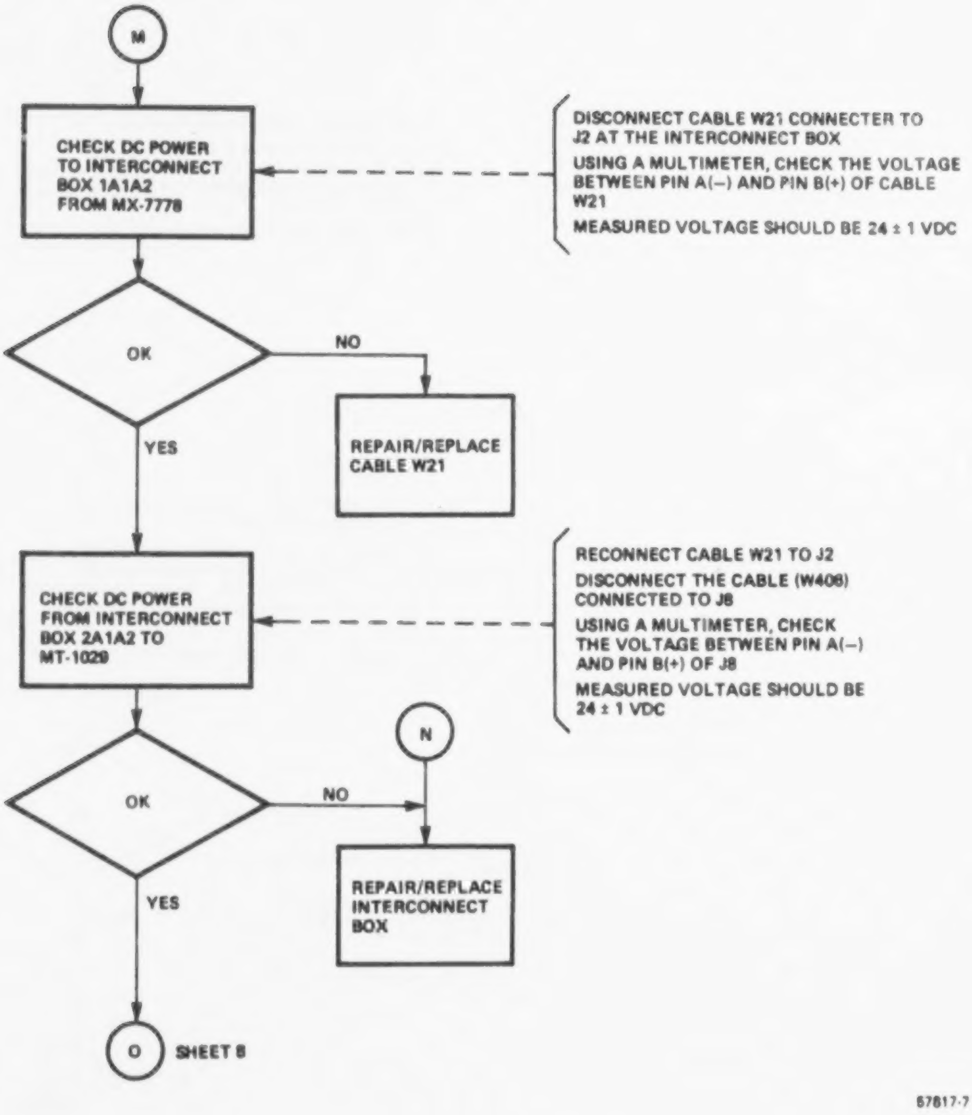

M
CHECK DC POWER TO INTERCONNECT BOX 1A1A2 FROM MX-7778
DISCONNECT CABLE W21 CONNECTER TO J2 AT THE INTERCONNECT BOX
USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN A(–) AND PIN B(+) OF CABLE W21
MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC
OK
NO
REPAIR/REPLACE CABLE W21
YES
CHECK DC POWER FROM INTERCONNECT BOX 2A1A2 TO MT-1029
RECONNECT CABLE W21 TO J2
DISCONNECT THE CABLE (W408) CONNECTED TO J8
USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN A(–) AND PIN B(+) OF J8
MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC
N
OK
NO
REPAIR/REPLACE INTERCONNECT BOX
YES
O
SHEET 8
67817-7

Figure 4-1. System Troubleshooting FLFC, Task 1 (Sheet 7 of 12)

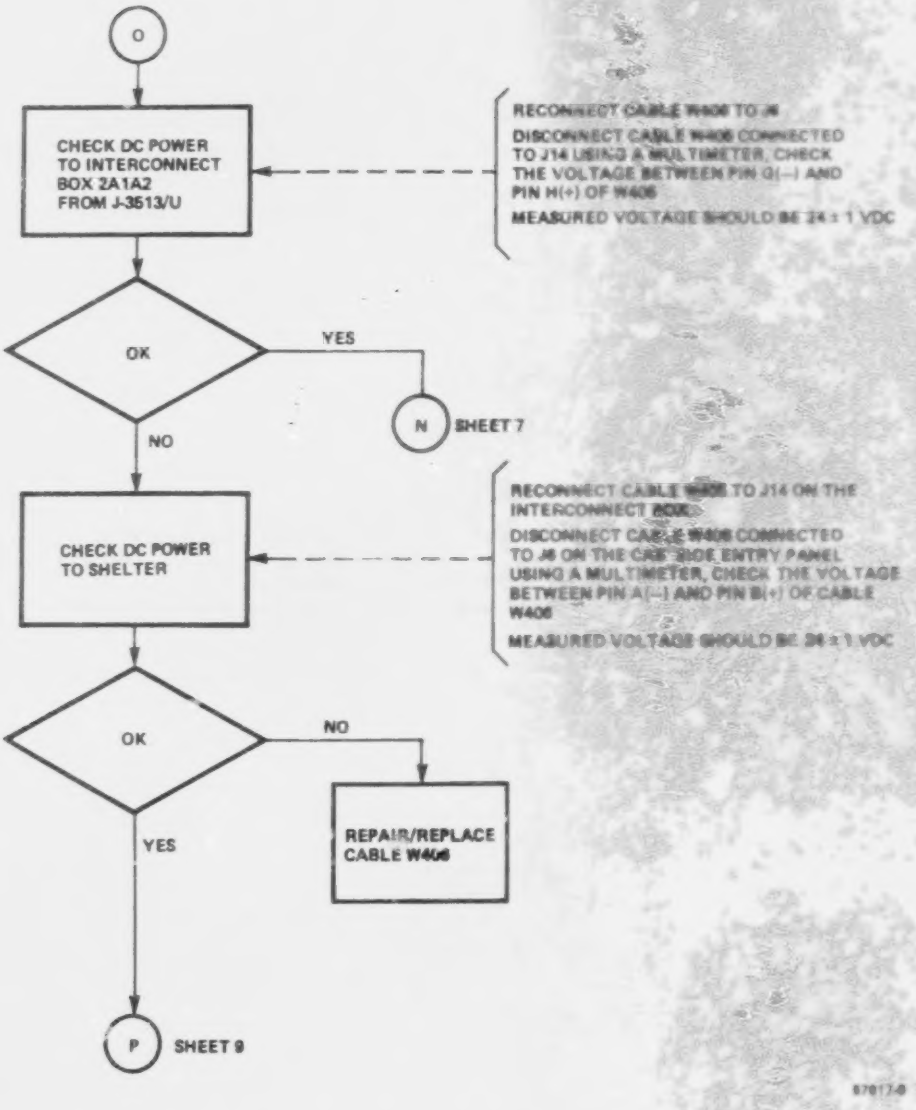
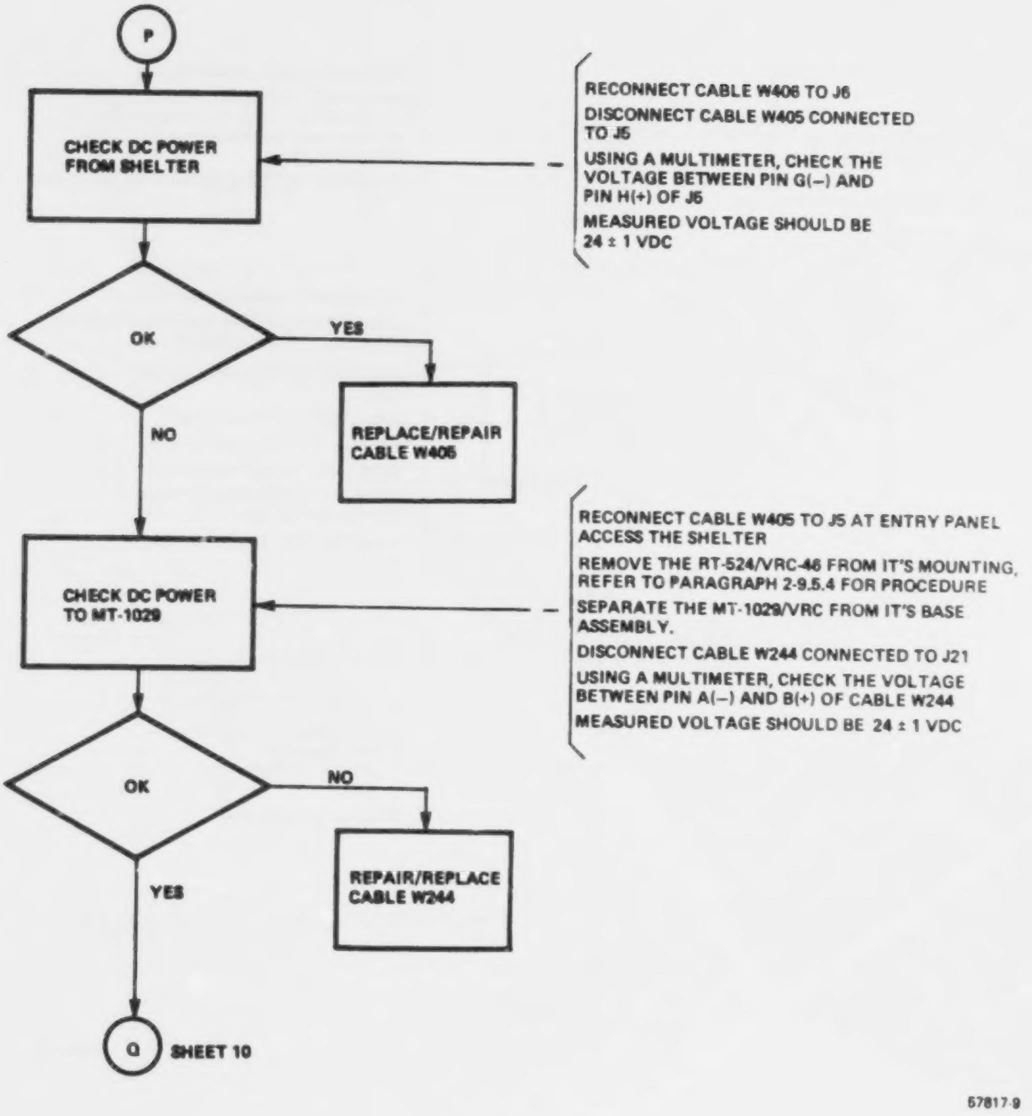

O
CHECK DC POWER TO INTERCONNECT BOX 2A1A2 FROM J-3513/U
RECONNECT CABLE W406 TO J6
DISCONNECT CABLE W406 CONNECTED TO J14 USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN G(–) AND PIN H(+) OF W406
MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC
OK
YES
N
SHEET 7
NO
CHECK DC POWER TO SHELTER
RECONNECT CABLE W406 TO J14 ON THE INTERCONNECT BOX
DISCONNECT CABLE W406 CONNECTED TO J6 ON THE CAB SIDE ENTRY PANEL USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN A(–) AND PIN B(+) OF CABLE W406
MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC
OK
NO
REPAIR/REPLACE CABLE W406
YES
P
SHEET 9
67017-8

Figure 4-1. System Troubleshooting FLFC, Task 1 (Sheet 8 of 12)


P
CHECK DC POWER FROM SHELTER
OK
YES
REPLACE/REPAIR CABLE W405
NO
CHECK DC POWER TO MT-1029
OK
NO
REPAIR/REPLACE CABLE W244
YES
Q
SHEET 10
57817-9

RECONNECT CABLE W406 TO J6

DISCONNECT CABLE W405 CONNECTED TO J5

USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN G(–) AND PIN H(+) OF J5

MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC

RECONNECT CABLE W405 TO J5 AT ENTRY PANEL ACCESS THE SHELTER

REMOVE THE RT-524/VRC-46 FROM IT'S MOUNTING, REFER TO PARAGRAPH 2-9.5.4 FOR PROCEDURE

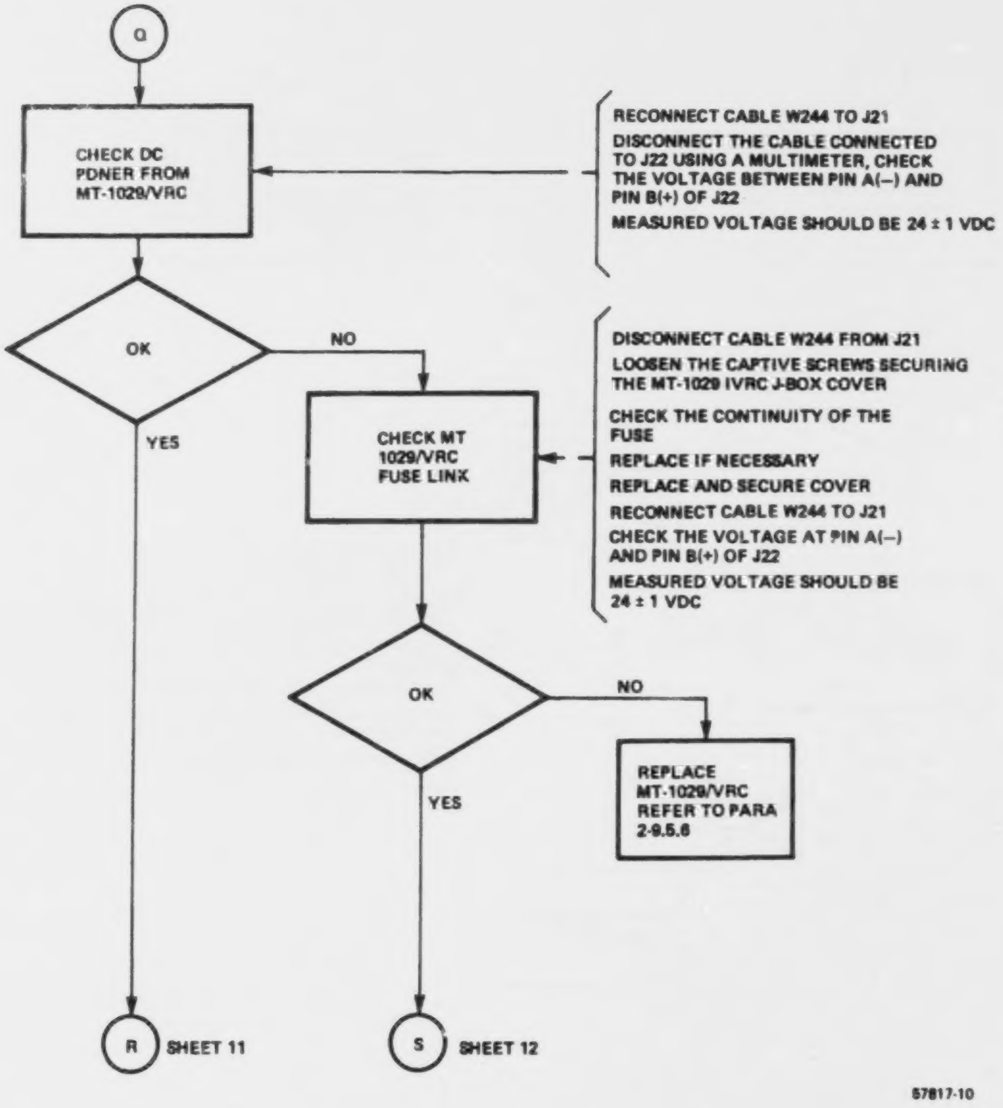
SEPARATE THE MT-1029/VRC FROM IT'S BASE ASSEMBLY.

DISCONNECT CABLE W244 CONNECTED TO J21

USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN A(–) AND B(+) OF CABLE W244

MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC

Figure 4-1. System Troubleshooting FLFC, Task 1 (Sheet 9 of 12)


Q
CHECK DC POWER FROM MT-1029/VRC
OK
NO
YES
CHECK MT 1029/VRC FUSE LINK
OK
NO
YES
REPLACE MT-1029/VRC REFER TO PARA 2-9.5.6
R
SHEET 11
S
SHEET 12
57817-10

RECONNECT CABLE W244 TO J21

DISCONNECT THE CABLE CONNECTED TO J22 USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN A(–) AND PIN B(+) OF J22

MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC

DISCONNECT CABLE W244 FROM J21

LOOSEN THE CAPTIVE SCREWS SECURING THE MT-1029 /VRC J-BOX COVER

CHECK THE CONTINUITY OF THE FUSE

REPLACE IF NECESSARY

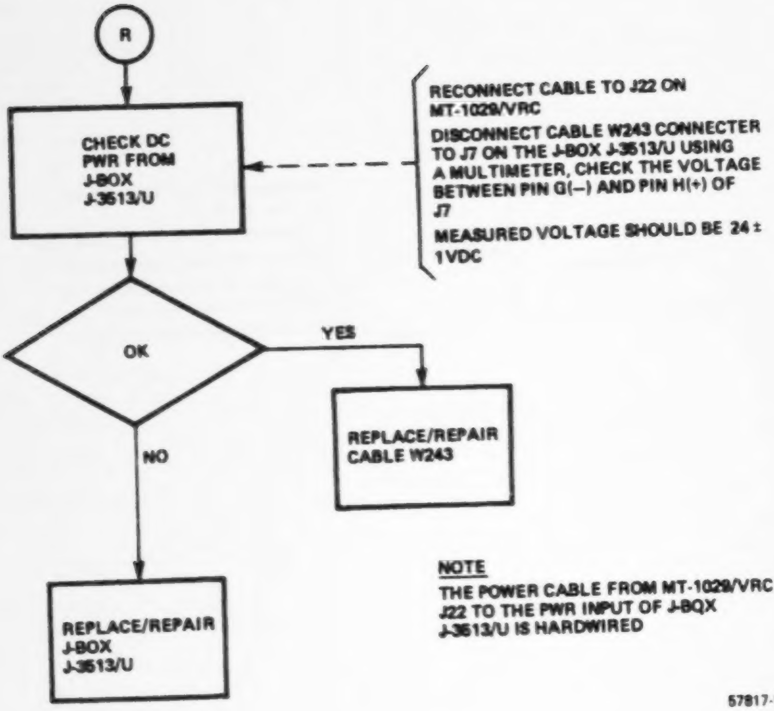
REPLACE AND SECURE COVER

RECONNECT CABLE W244 TO J21

CHECK THE VOLTAGE AT PIN A(–) AND PIN B(+) OF J22

MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC

Figure 4-1. System Troubleshooting FLFC, Task 1 (Sheet 10 of 12)


R
CHECK DC PWR FROM J-BOX J-3513/U
OK
YES
NO
REPLACE/REPAIR CABLE W243
REPLACE/REPAIR J-BOX J-3513/U
57817-11

RECONNECT CABLE TO J22 ON MT-1029/VRC

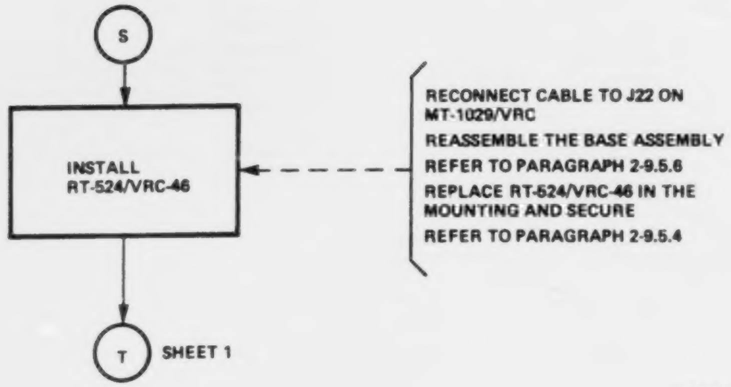
DISCONNECT CABLE W243 CONNECTER TO J7 ON THE J-BOX J-3513/U USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN G(–) AND PIN H(+) OF J7

MEASURED VOLTAGE SHOULD BE 24 ± 1VDC

NOTE

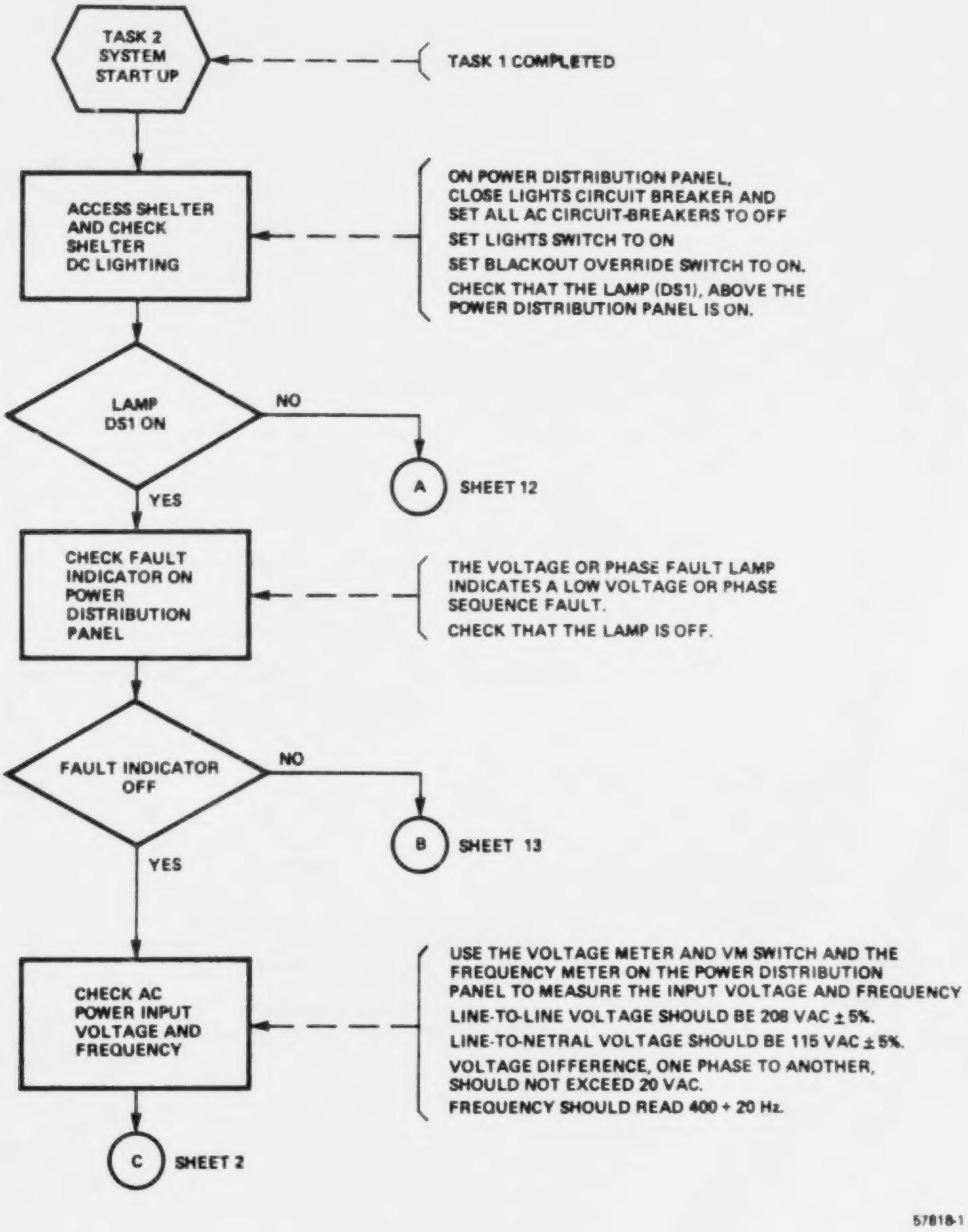
THE POWER CABLE FROM MT-1029/VRC J22 TO THE PWR INPUT OF J-BQX J-3513/U IS HARDWIRED

Figure 4-1. System Troubleshooting FLFC, Task 1 (Sheet 11 of 12)


S
INSTALL RT-524/VRC-46
RECONNECT CABLE TO J22 ON MT-1029/VRC
REASSEMBLE THE BASE ASSEMBLY
REFER TO PARAGRAPH 2-9.5.6
REPLACE RT-524/VRC-46 IN THE MOUNTING AND SECURE
REFER TO PARAGRAPH 2-9.5.4
T
SHEET 1

57817-12

Figure 4-1. System Troubleshooting FLFC, Task 1 (Sheet 12 of 12)


TASK 2 SYSTEM START UP
ACCESS SHELTER AND CHECK SHELTER DC LIGHTING
LAMP DS1 ON
NO
A
SHEET 12
YES
CHECK FAULT INDICATOR ON POWER DISTRIBUTION PANEL
FAULT INDICATOR OFF
NO
B
SHEET 13
YES
CHECK AC POWER INPUT VOLTAGE AND FREQUENCY
C
SHEET 2
57818-1

TASK 1 COMPLETED

ON POWER DISTRIBUTION PANEL,
CLOSE LIGHTS CIRCUIT BREAKER AND
SET ALL AC CIRCUIT-BREAKERS TO OFF

SET LIGHTS SWITCH TO ON

SET BLACKOUT OVERRIDE SWITCH TO ON.

CHECK THAT THE LAMP (DS1), ABOVE THE
POWER DISTRIBUTION PANEL IS ON.

THE VOLTAGE OR PHASE FAULT LAMP
INDICATES A LOW VOLTAGE OR PHASE
SEQUENCE FAULT.

CHECK THAT THE LAMP IS OFF.

USE THE VOLTAGE METER AND VM SWITCH AND THE
FREQUENCY METER ON THE POWER DISTRIBUTION
PANEL TO MEASURE THE INPUT VOLTAGE AND FREQUENCY

LINE-TO-LINE VOLTAGE SHOULD BE 208 VAC ± 5%.

LINE-TO-NETRAL VOLTAGE SHOULD BE 115 VAC ± 5%.

VOLTAGE DIFFERENCE, ONE PHASE TO ANOTHER,
SHOULD NOT EXCEED 20 VAC.

FREQUENCY SHOULD READ 400 + 20 Hz.

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 1 of 109)

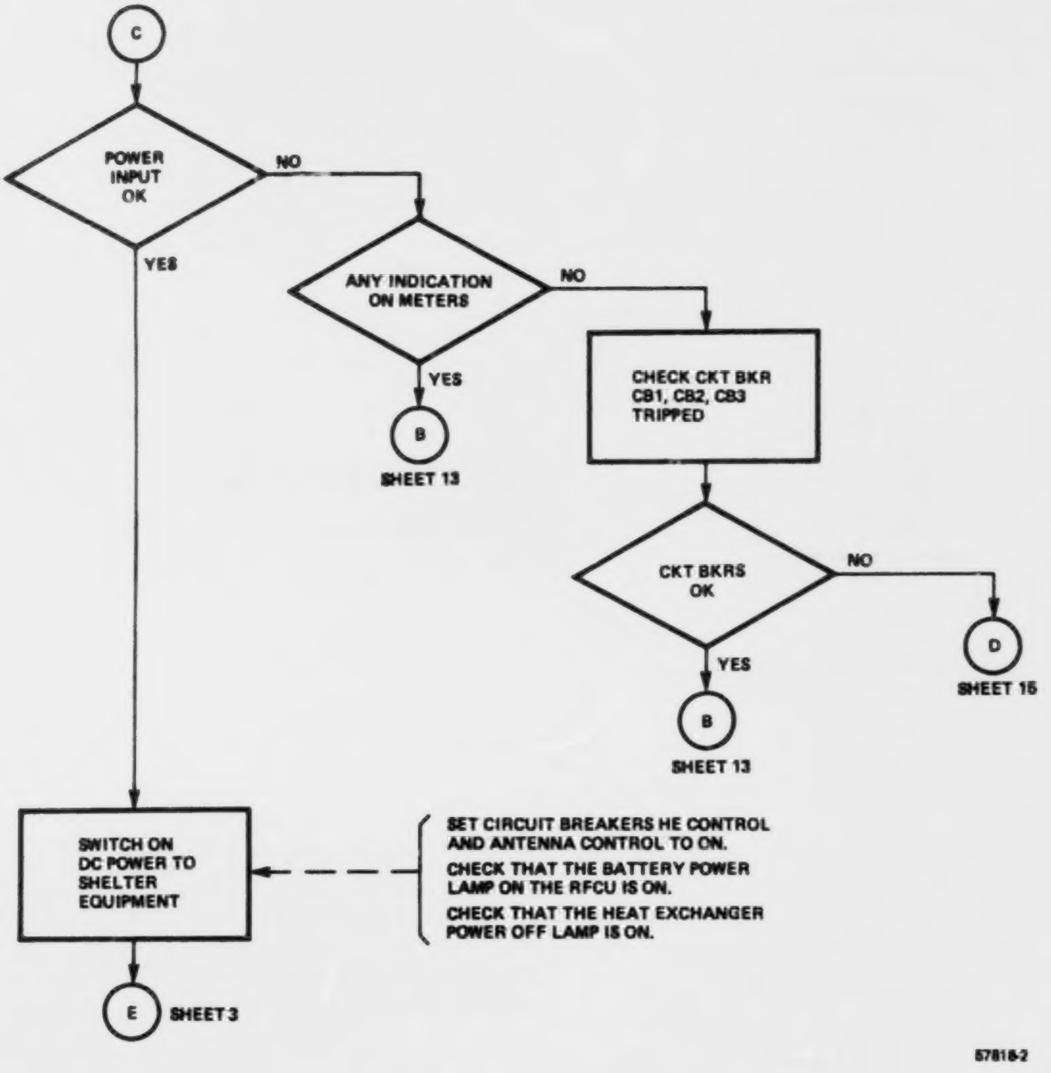

C
POWER INPUT OK
NO
YES
ANY INDICATION ON METERS
NO
YES
B
SHEET 13
CHECK CKT BKR CB1, CB2, CB3 TRIPPED
CKT BKRS OK
NO
YES
D
SHEET 15
B
SHEET 13
SWITCH ON DC POWER TO SHELTER EQUIPMENT
SET CIRCUIT BREAKERS HE CONTROL AND ANTENNA CONTROL TO ON.
CHECK THAT THE BATTERY POWER LAMP ON THE RFCU IS ON.
CHECK THAT THE HEAT EXCHANGER POWER OFF LAMP IS ON.
E
SHEET 3
57818-2

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 2 of 109)

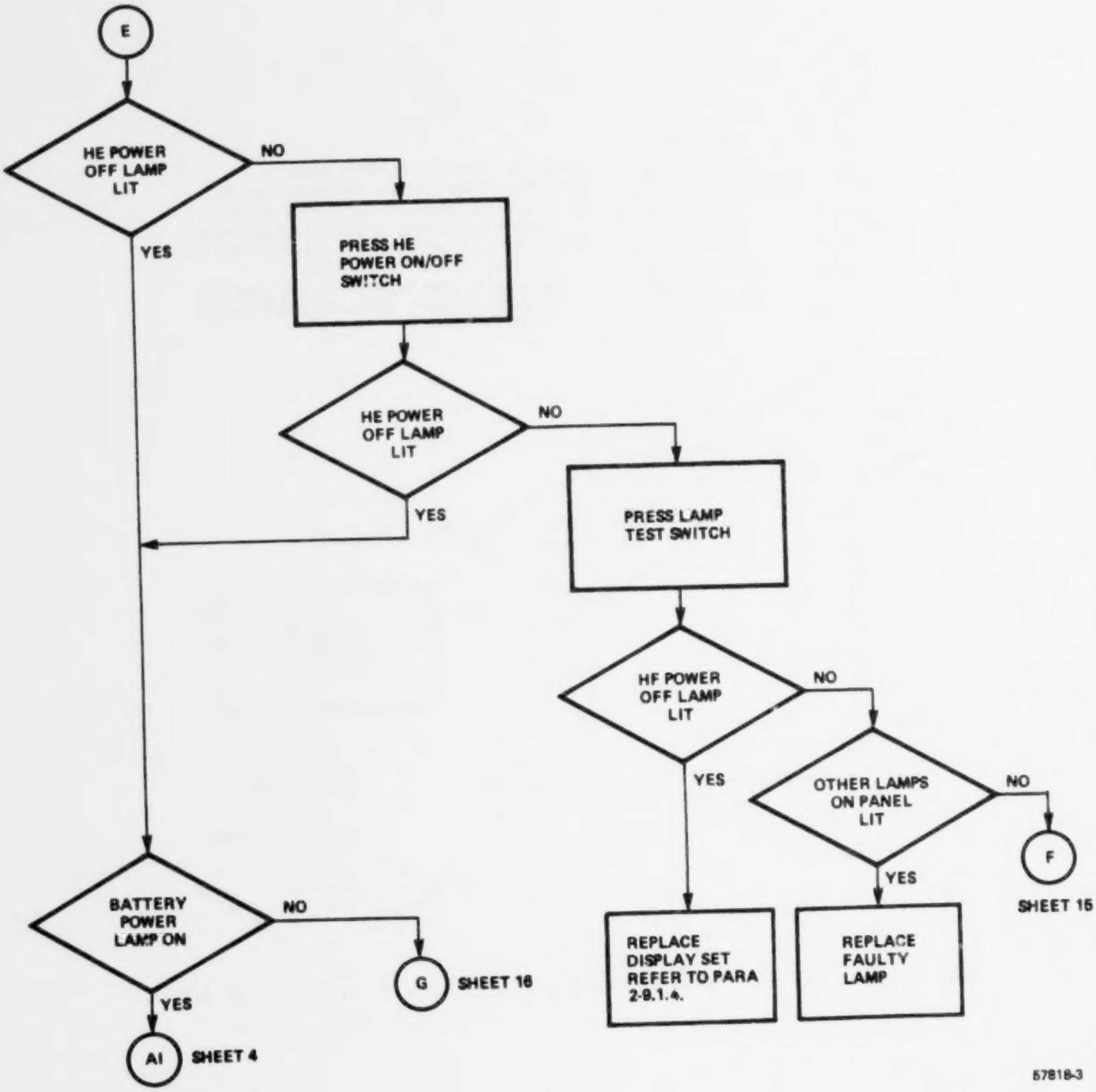


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 3 of 109)

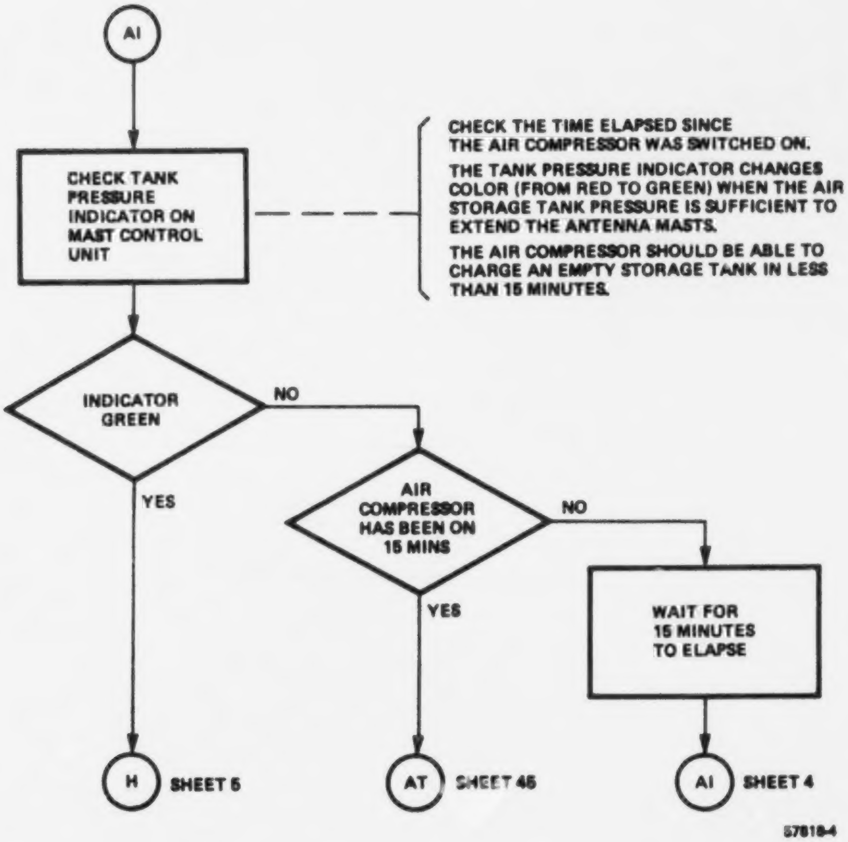
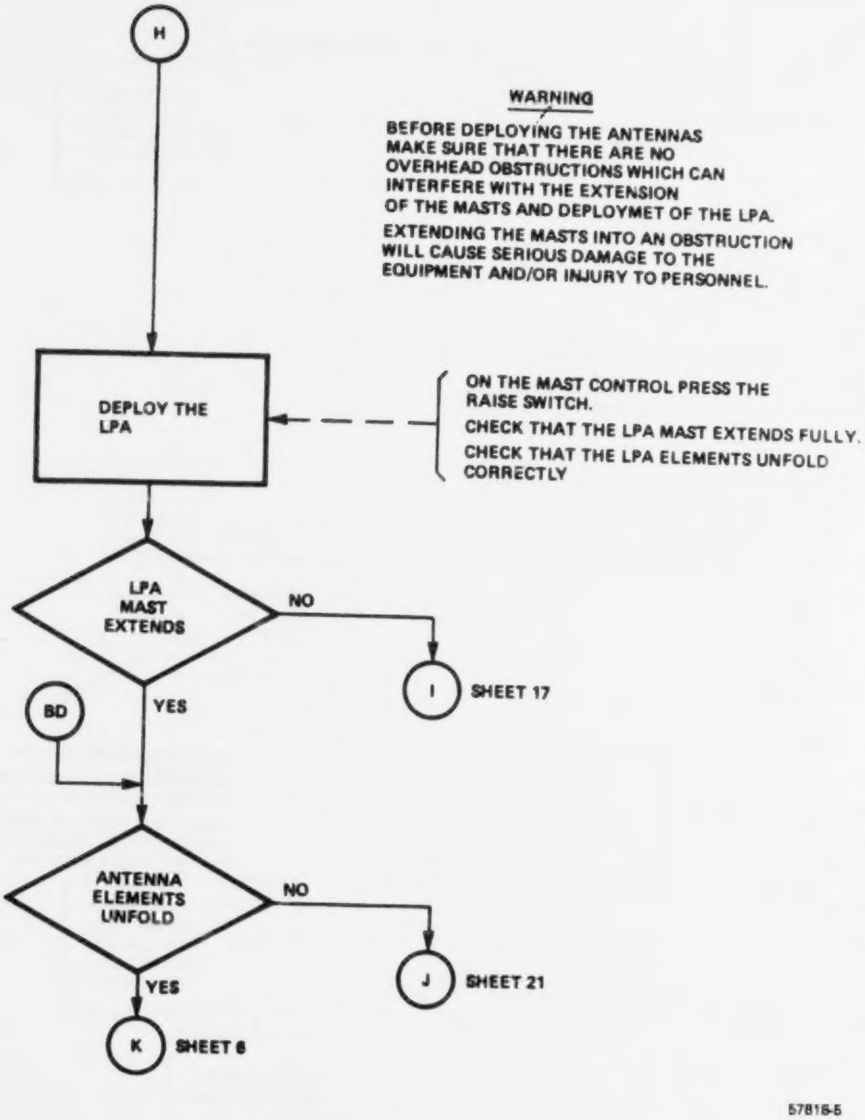

AI
CHECK TANK PRESSURE INDICATOR ON MAST CONTROL UNIT
CHECK THE TIME ELAPSED SINCE THE AIR COMPRESSOR WAS SWITCHED ON.
THE TANK PRESSURE INDICATOR CHANGES COLOR (FROM RED TO GREEN) WHEN THE AIR STORAGE TANK PRESSURE IS SUFFICIENT TO EXTEND THE ANTENNA MASTS.
THE AIR COMPRESSOR SHOULD BE ABLE TO CHARGE AN EMPTY STORAGE TANK IN LESS THAN 15 MINUTES.
INDICATOR GREEN
NO
YES
AIR COMPRESSOR HAS BEEN ON 15 MINS
NO
YES
WAIT FOR 15 MINUTES TO ELAPSE
H
SHEET 5
AT
SHEET 45
AI
SHEET 4
57818-4

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 4 of 109)



WARNING

BEFORE DEPLOYING THE ANTENNAS MAKE SURE THAT THERE ARE NO OVERHEAD OBSTRUCTIONS WHICH CAN INTERFERE WITH THE EXTENSION OF THE MASTS AND DEPLOYMET OF THE LPA.

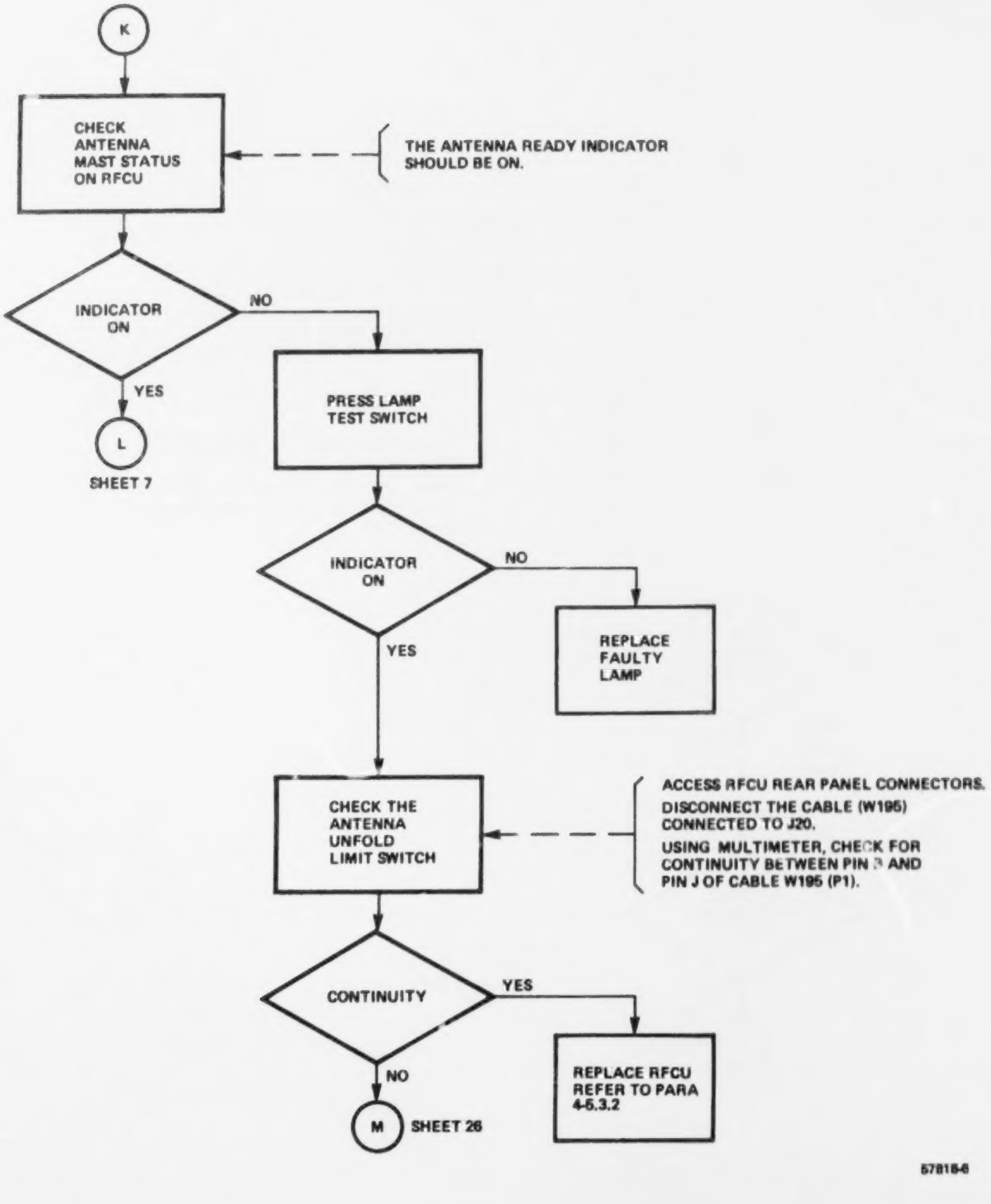
EXTENDING THE MASTS INTO AN OBSTRUCTION WILL CAUSE SERIOUS DAMAGE TO THE EQUIPMENT AND/OR INJURY TO PERSONNEL.

ON THE MAST CONTROL PRESS THE RAISE SWITCH.

CHECK THAT THE LPA MAST EXTENDS FULLY.

CHECK THAT THE LPA ELEMENTS UNFOLD CORRECTLY

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 5 of 109)



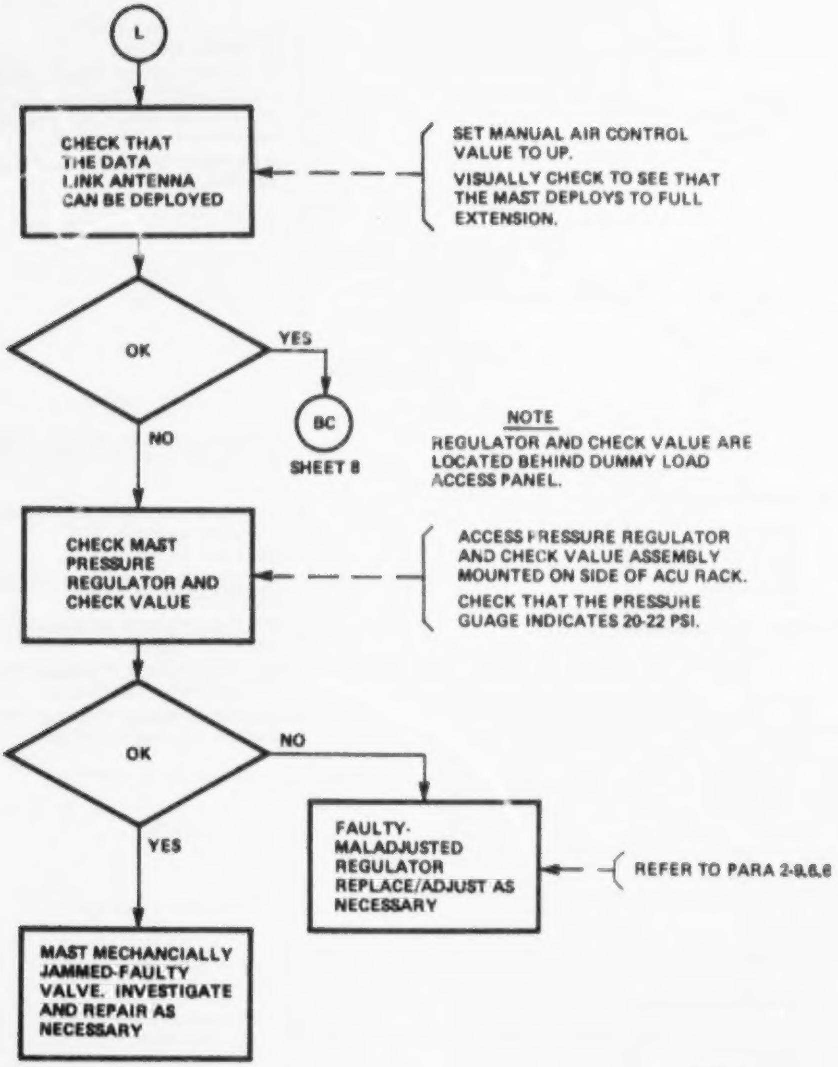
THE ANTENNA READY INDICATOR SHOULD BE ON.

ACCESS RFCU REAR PANEL CONNECTORS.

DISCONNECT THE CABLE (W195) CONNECTED TO J20.

USING MULTIMETER, CHECK FOR CONTINUITY BETWEEN PIN B AND PIN J OF CABLE W195 (P1).

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 6 of 109)


L
CHECK THAT THE DATA LINK ANTENNA CAN BE DEPLOYED
OK
YES
BC
SHEET 8
NO
CHECK MAST PRESSURE REGULATOR AND CHECK VALUE
OK
NO
YES
FAULTY-MALADJUSTED REGULATOR REPLACE/ADJUST AS NECESSARY
MAST MECHANCIALLY JAMMED-FAULTY VALVE. INVESTIGATE AND REPAIR AS NECESSARY

SET MANUAL AIR CONTROL VALUE TO UP.

VISUALLY CHECK TO SEE THAT THE MAST DEPLOYS TO FULL EXTENSION.

NOTE

REGULATOR AND CHECK VALUE ARE LOCATED BEHIND DUMMY LOAD ACCESS PANEL.

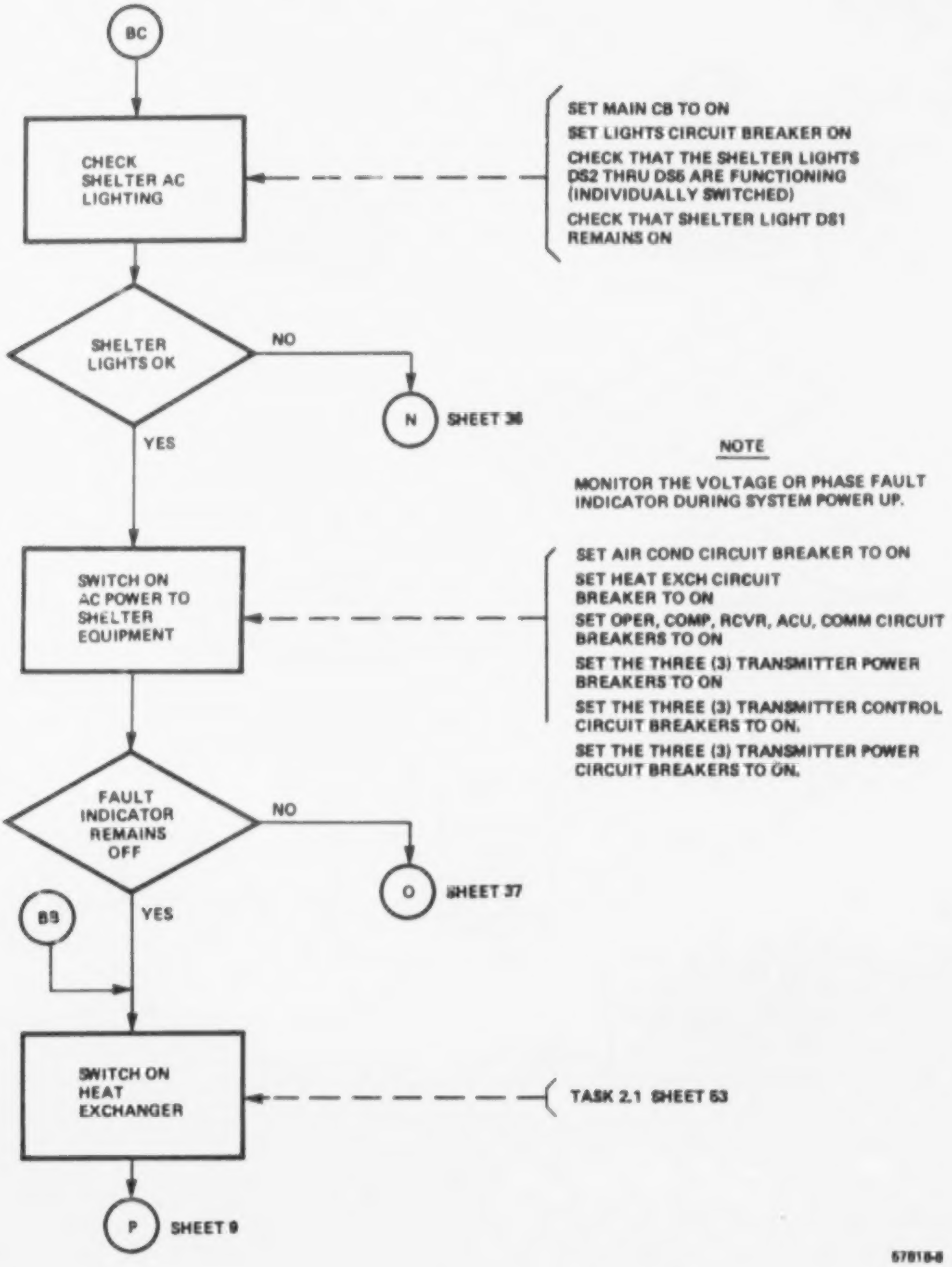
ACCESS PRESSURE REGULATOR AND CHECK VALUE ASSEMBLY MOUNTED ON SIDE OF ACU RACK.

CHECK THAT THE PRESSURE GUAGE INDICATES 20-22 PSI.

REFER TO PARA 2-9.6.6

57818-7

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 7 of 109)


BC
CHECK SHELTER AC LIGHTING
SHELTER LIGHTS OK
NO
N
SHEET 36
YES
SWITCH ON AC POWER TO SHELTER EQUIPMENT
FAULT INDICATOR REMAINS OFF
NO
O
SHEET 37
BS
YES
SWITCH ON HEAT EXCHANGER
P
SHEET 9
57818-8

SET MAIN CB TO ON

SET LIGHTS CIRCUIT BREAKER ON

CHECK THAT THE SHELTER LIGHTS DS2 THRU DS5 ARE FUNCTIONING (INDIVIDUALLY SWITCHED)

CHECK THAT SHELTER LIGHT DS1 REMAINS ON

NOTE

MONITOR THE VOLTAGE OR PHASE FAULT INDICATOR DURING SYSTEM POWER UP.

SET AIR COND CIRCUIT BREAKER TO ON

SET HEAT EXCH CIRCUIT BREAKER TO ON

SET OPER, COMP, RCVR, ACU, COMM CIRCUIT BREAKERS TO ON

SET THE THREE (3) TRANSMITTER POWER BREAKERS TO ON

SET THE THREE (3) TRANSMITTER CONTROL CIRCUIT BREAKERS TO ON.

SET THE THREE (3) TRANSMITTER POWER CIRCUIT BREAKERS TO ON.

TASK 2.1 SHEET 53

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 8 of 109)

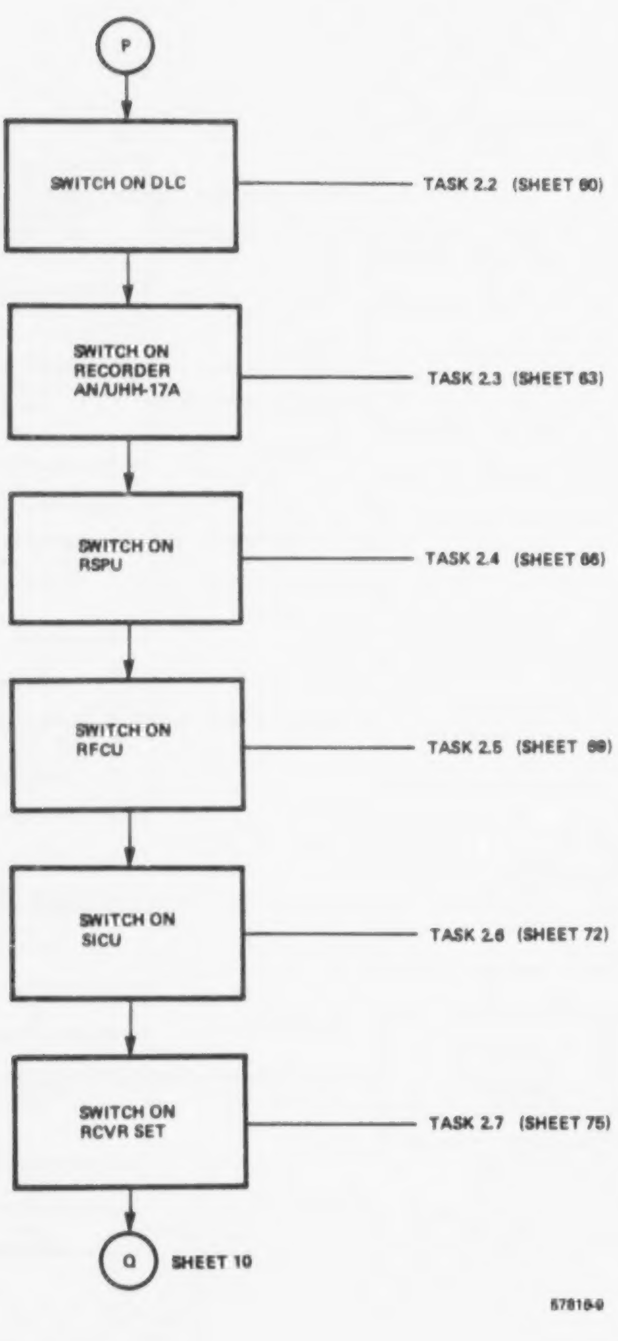


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 9 of 109)

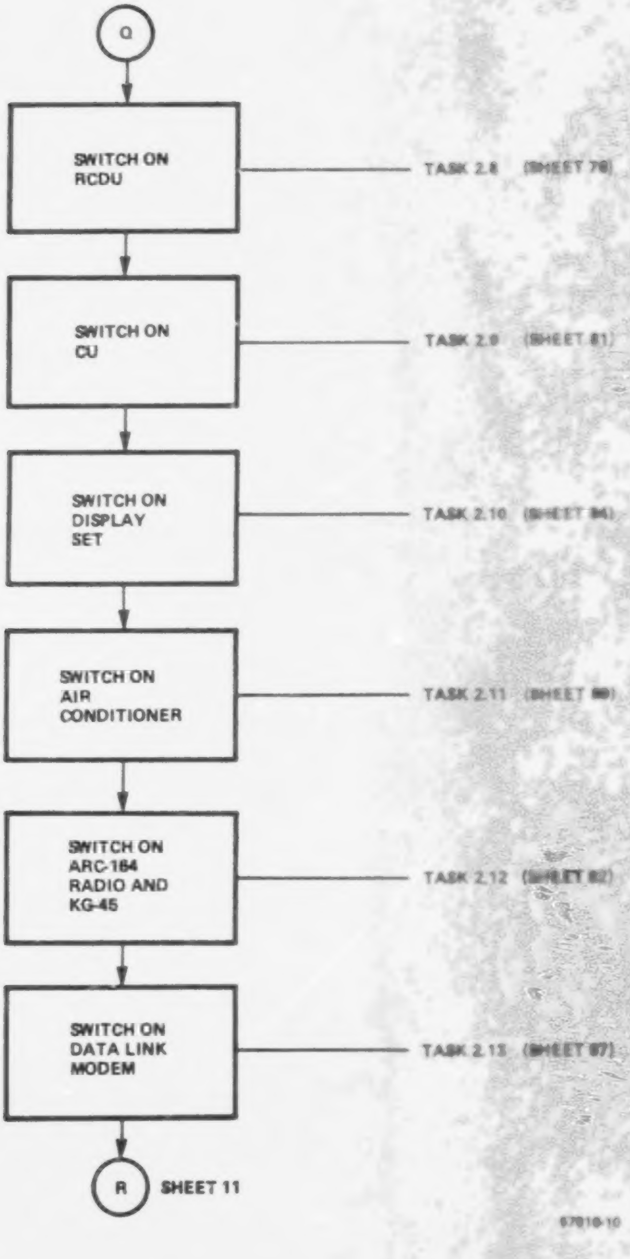


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 10 of 109)

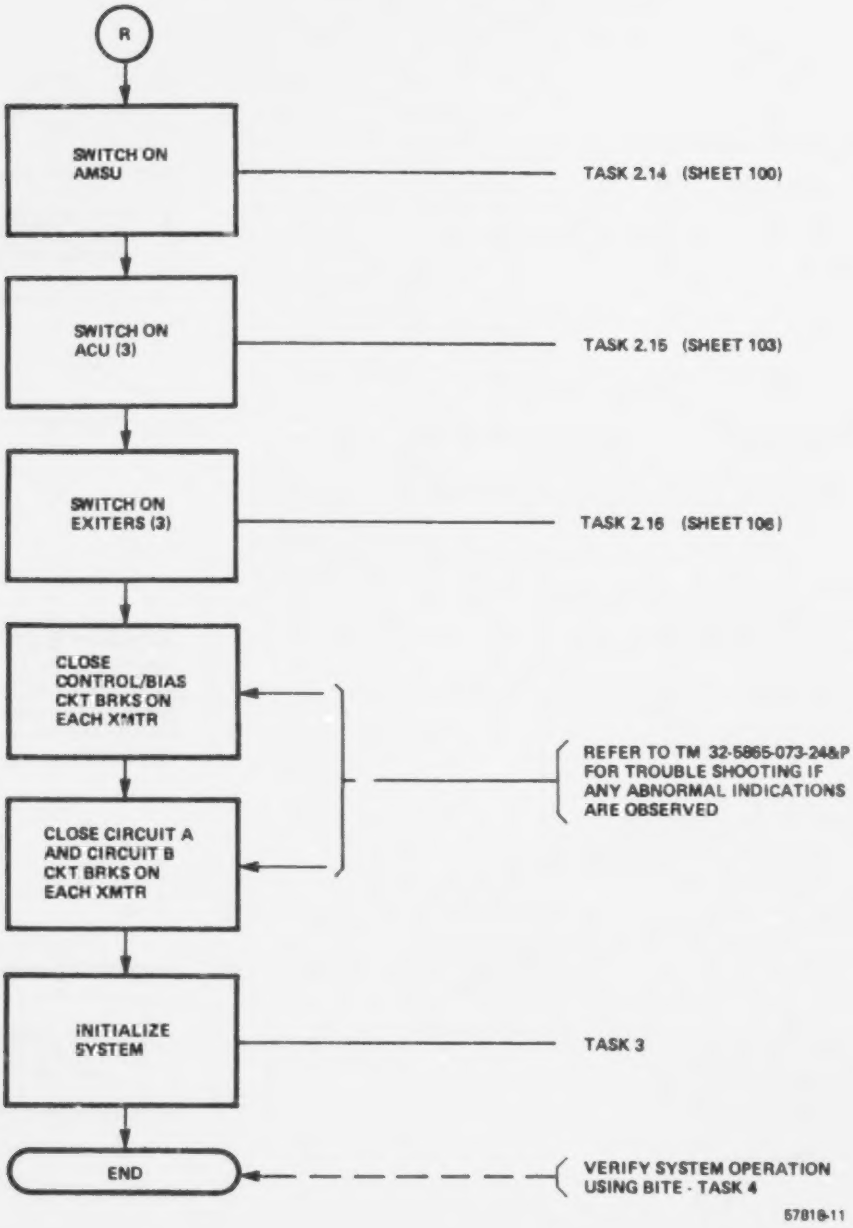

R
SWITCH ON AMSU
TASK 2.14 (SHEET 100)
SWITCH ON ACU (3)
TASK 2.15 (SHEET 103)
SWITCH ON EXITERS (3)
TASK 2.16 (SHEET 106)
CLOSE CONTROL/BIAS CKT BRKS ON EACH XMTR
CLOSE CIRCUIT A AND CIRCUIT B CKT BRKS ON EACH XMTR
REFER TO TM 32-5865-073-24&P FOR TROUBLE SHOOTING IF ANY ABNORMAL INDICATIONS ARE OBSERVED
INITIALIZE SYSTEM
TASK 3
END
VERIFY SYSTEM OPERATION USING BITE - TASK 4
57818-11

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 11 of 109)

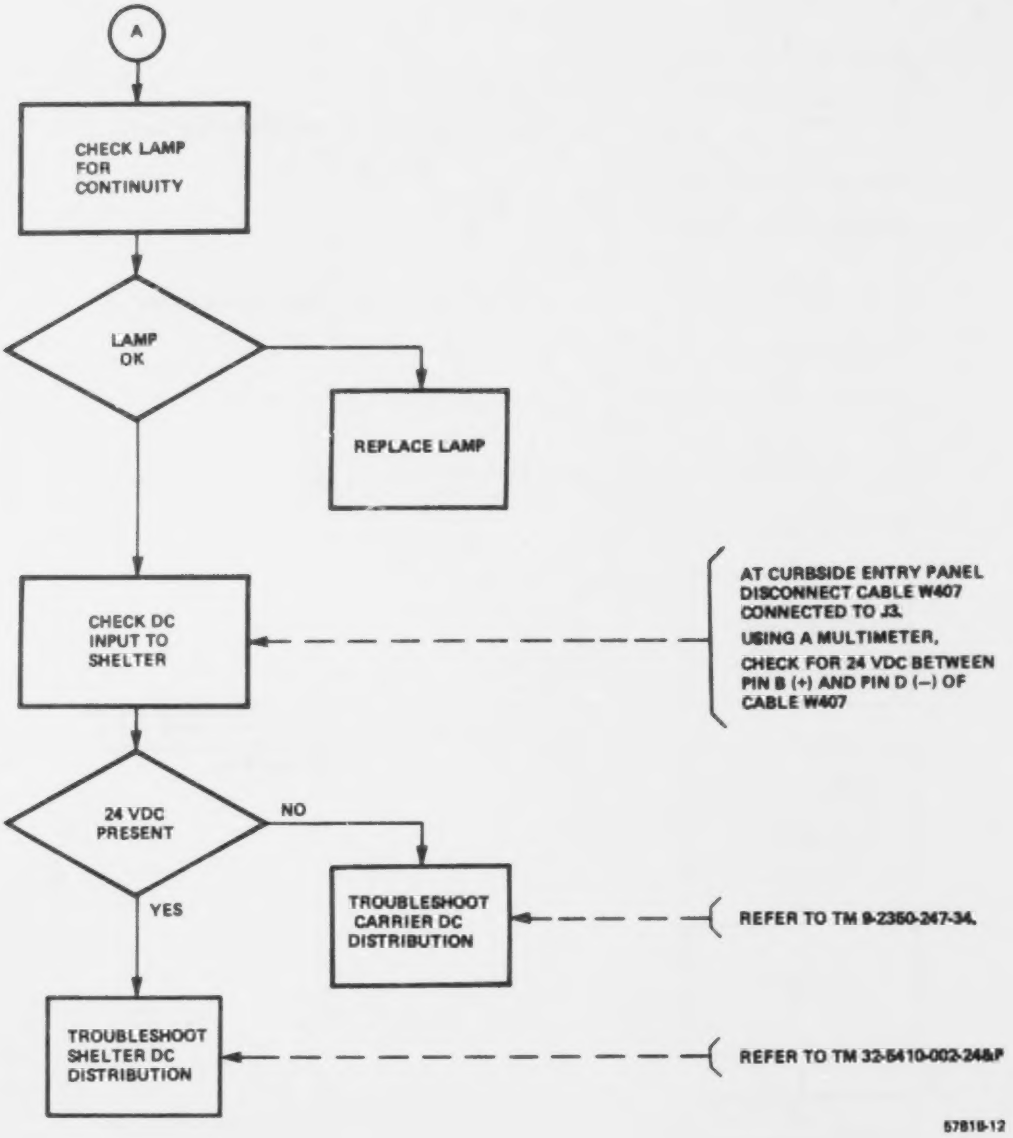
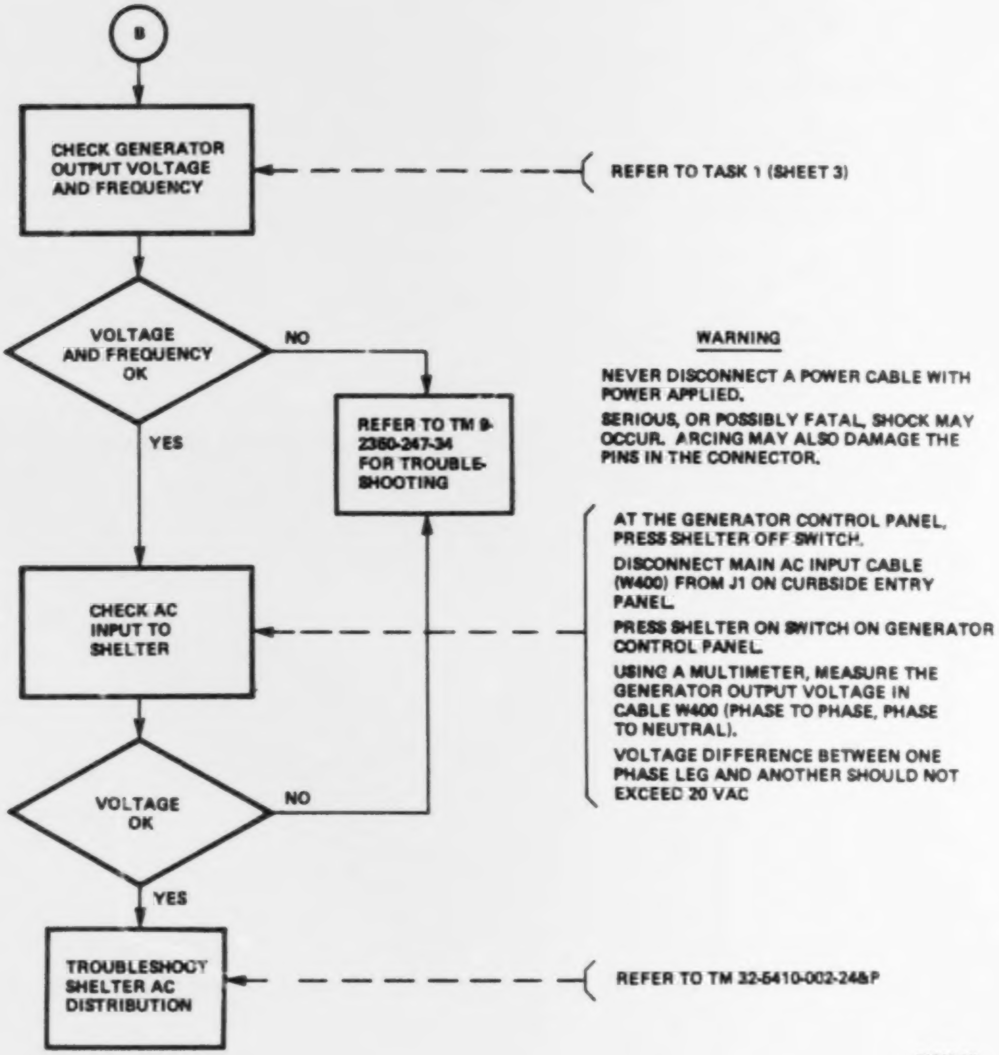

A
CHECK LAMP FOR CONTINUITY
LAMP OK
REPLACE LAMP
CHECK DC INPUT TO SHELTER
AT CURBSIDE ENTRY PANEL DISCONNECT CABLE W407 CONNECTED TO J3.
USING A MULTIMETER,
CHECK FOR 24 VDC BETWEEN PIN B (+) AND PIN D (–) OF CABLE W407
24 VDC PRESENT
NO
YES
TROUBLESHOOT CARRIER DC DISTRIBUTION
REFER TO TM 9-2350-247-34.
TROUBLESHOOT SHELTER DC DISTRIBUTION
REFER TO TM 32-5410-002-24&P
57818-12

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 12 of 109)


B
CHECK GENERATOR OUTPUT VOLTAGE AND FREQUENCY
VOLTAGE AND FREQUENCY OK
NO
YES
REFER TO TM 9-2350-247-34 FOR TROUBLESHOOTING
CHECK AC INPUT TO SHELTER
VOLTAGE OK
NO
YES
TROUBLESHOOT SHELTER AC DISTRIBUTION
57818-13

REFER TO TASK 1 (SHEET 3)

WARNING

NEVER DISCONNECT A POWER CABLE WITH POWER APPLIED.

SERIOUS, OR POSSIBLY FATAL, SHOCK MAY OCCUR. ARCING MAY ALSO DAMAGE THE PINS IN THE CONNECTOR.

AT THE GENERATOR CONTROL PANEL, PRESS SHELTER OFF SWITCH.

DISCONNECT MAIN AC INPUT CABLE (W400) FROM J1 ON CURBSIDE ENTRY PANEL.

PRESS SHELTER ON SWITCH ON GENERATOR CONTROL PANEL.

USING A MULTIMETER, MEASURE THE GENERATOR OUTPUT VOLTAGE IN CABLE W400 (PHASE TO PHASE, PHASE TO NEUTRAL).

VOLTAGE DIFFERENCE BETWEEN ONE PHASE LEG AND ANOTHER SHOULD NOT EXCEED 20 VAC

REFER TO TM 32-5410-002-24&P

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 13 of 109)

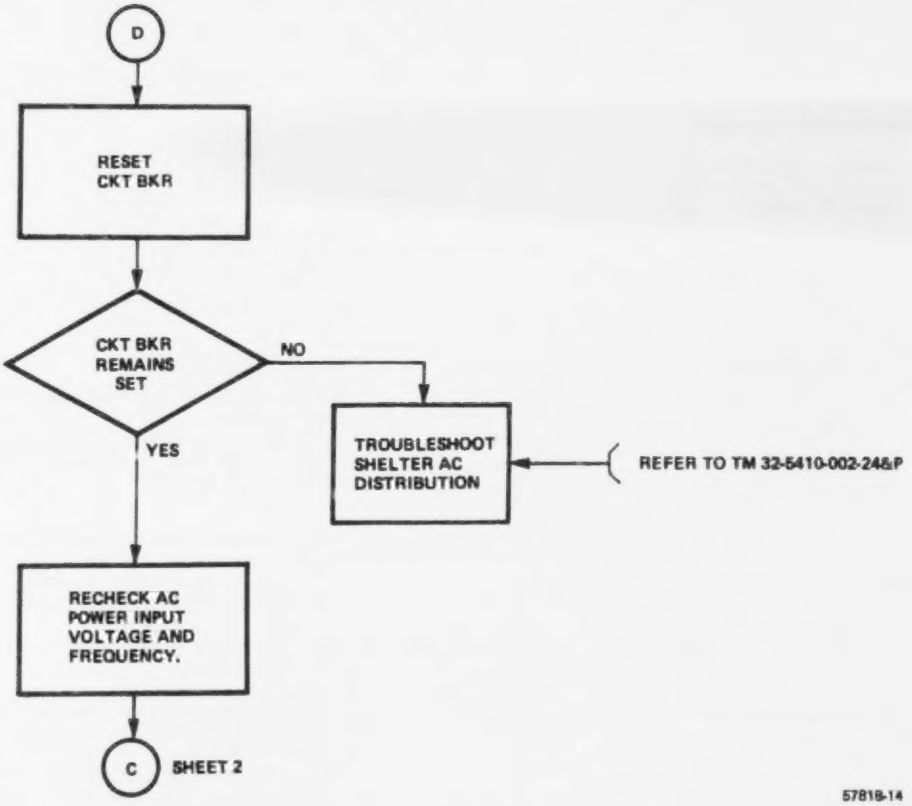
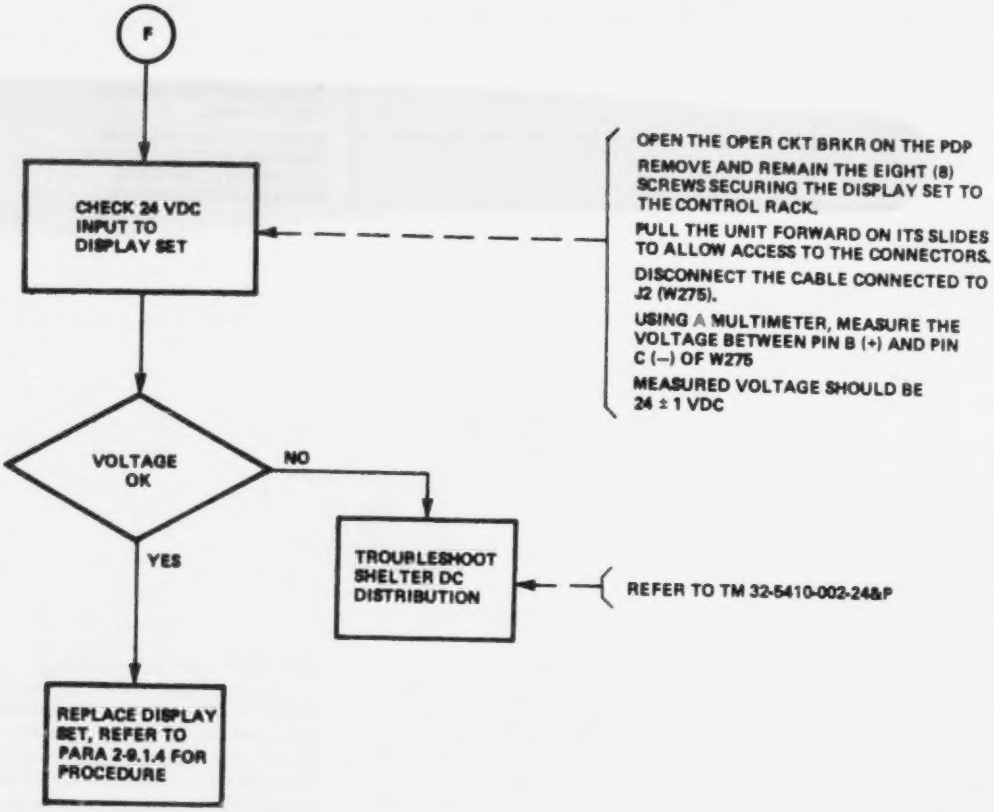

D
RESET CKT BKR
CKT BKR REMAINS SET
NO
YES
TROUBLESHOOT SHELTER AC DISTRIBUTION
REFER TO TM 32-5410-002-24&P
RECHECK AC POWER INPUT VOLTAGE AND FREQUENCY.
C
SHEET 2
57818-14

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 14 of 109)


F
CHECK 24 VDC INPUT TO DISPLAY SET
VOLTAGE OK
NO
YES
TROUBLESHOOT SHELTER DC DISTRIBUTION
REPLACE DISPLAY SET, REFER TO PARA 2-9.1.4 FOR PROCEDURE
57818-15

OPEN THE OPER CKT BRKR ON THE PDP

REMOVE AND REMAIN THE EIGHT (8) SCREWS SECURING THE DISPLAY SET TO THE CONTROL RACK.

PULL THE UNIT FORWARD ON ITS SLIDES TO ALLOW ACCESS TO THE CONNECTORS.

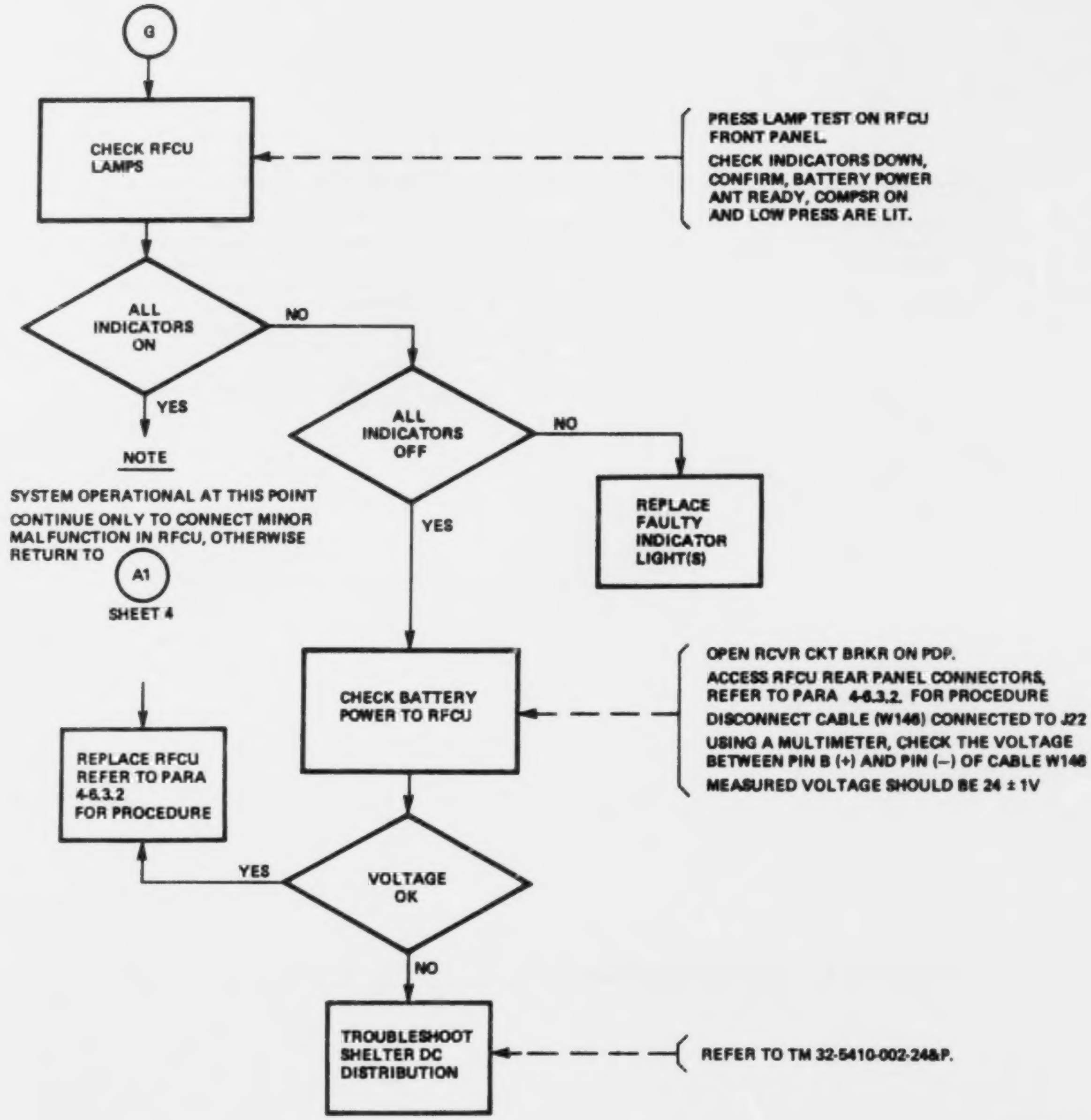
DISCONNECT THE CABLE CONNECTED TO J2 (W275).

USING A MULTIMETER, MEASURE THE VOLTAGE BETWEEN PIN B (+) AND PIN C (–) OF W275

MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC

REFER TO TM 32-5410-002-24&P

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 15 of 109)


G
CHECK RFCU LAMPS
ALL INDICATORS ON
NO
YES
ALL INDICATORS OFF
NO
YES
REPLACE FAULTY INDICATOR LIGHT(S)
A1
SHEET 4
CHECK BATTERY POWER TO RFCU
REPLACE RFCU REFER TO PARA 4-6.3.2 FOR PROCEDURE
VOLTAGE OK
YES
NO
TROUBLESHOOT SHELTER DC DISTRIBUTION

PRESS LAMP TEST ON RFCU FRONT PANEL.

CHECK INDICATORS DOWN, CONFIRM, BATTERY POWER ANT READY, COMPSR ON AND LOW PRESS ARE LIT.

NOTE

SYSTEM OPERATIONAL AT THIS POINT

CONTINUE ONLY TO CONNECT MINOR MALFUNCTION IN RFCU, OTHERWISE RETURN TO A1 SHEET 4

OPEN RCVR CKT BRKR ON PDP.

ACCESS RFCU REAR PANEL CONNECTORS, REFER TO PARA 4-6.3.2. FOR PROCEDURE

DISCONNECT CABLE (W146) CONNECTED TO J22

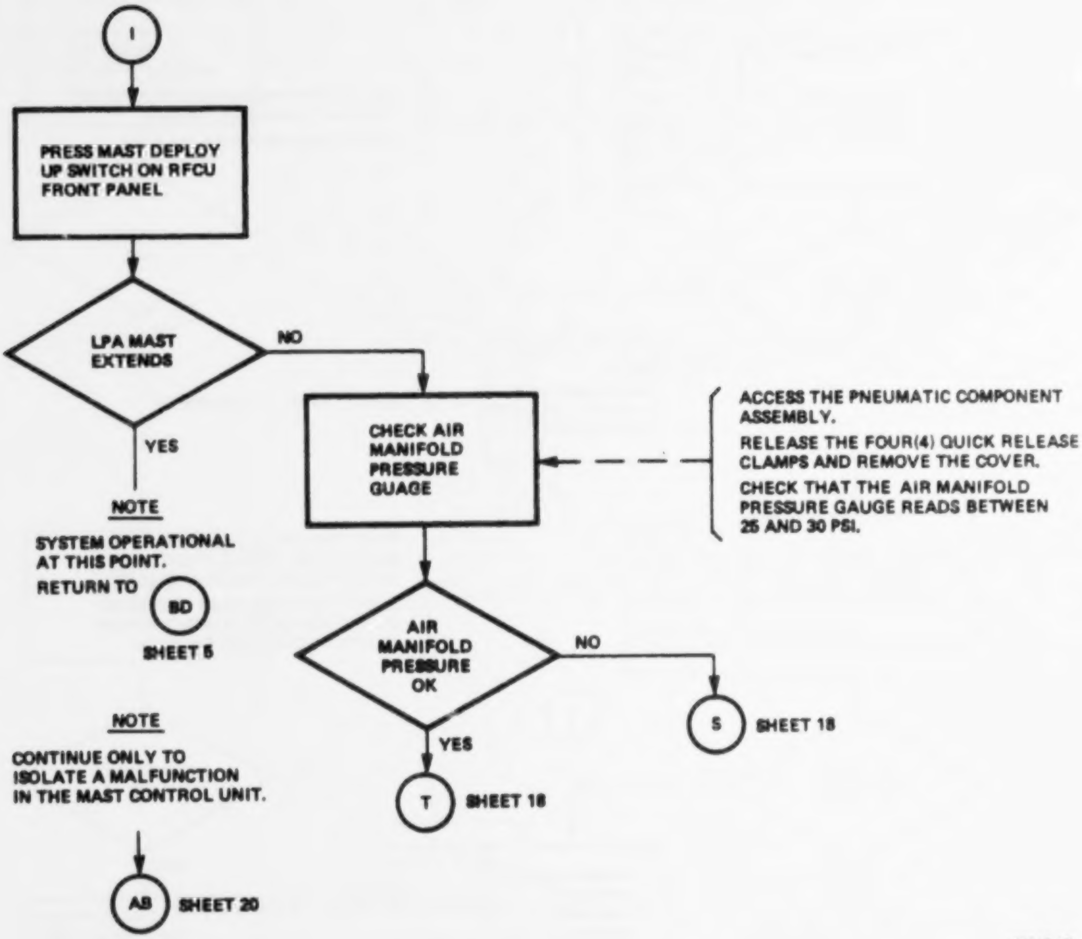
USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN B (+) AND PIN (–) OF CABLE W146

MEASURED VOLTAGE SHOULD BE 24 ± 1V

REFER TO TM 32-5410-002-24&P.

57818-16

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 16 of 109)


I
PRESS MAST DEPLOY UP SWITCH ON RFCU FRONT PANEL
LPA MAST EXTENDS
NO
YES
NOTE
SYSTEM OPERATIONAL AT THIS POINT.
RETURN TO
BD
SHEET 5
NOTE
CONTINUE ONLY TO ISOLATE A MALFUNCTION IN THE MAST CONTROL UNIT.
AB
SHEET 20
CHECK AIR MANIFOLD PRESSURE GUAGE
ACCESS THE PNEUMATIC COMPONENT ASSEMBLY.
RELEASE THE FOUR(4) QUICK RELEASE CLAMPS AND REMOVE THE COVER.
CHECK THAT THE AIR MANIFOLD PRESSURE GAUGE READS BETWEEN 25 AND 30 PSI.
AIR MANIFOLD PRESSURE OK
NO
S
SHEET 18
YES
T
SHEET 18

57818-17

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 17 of 109)

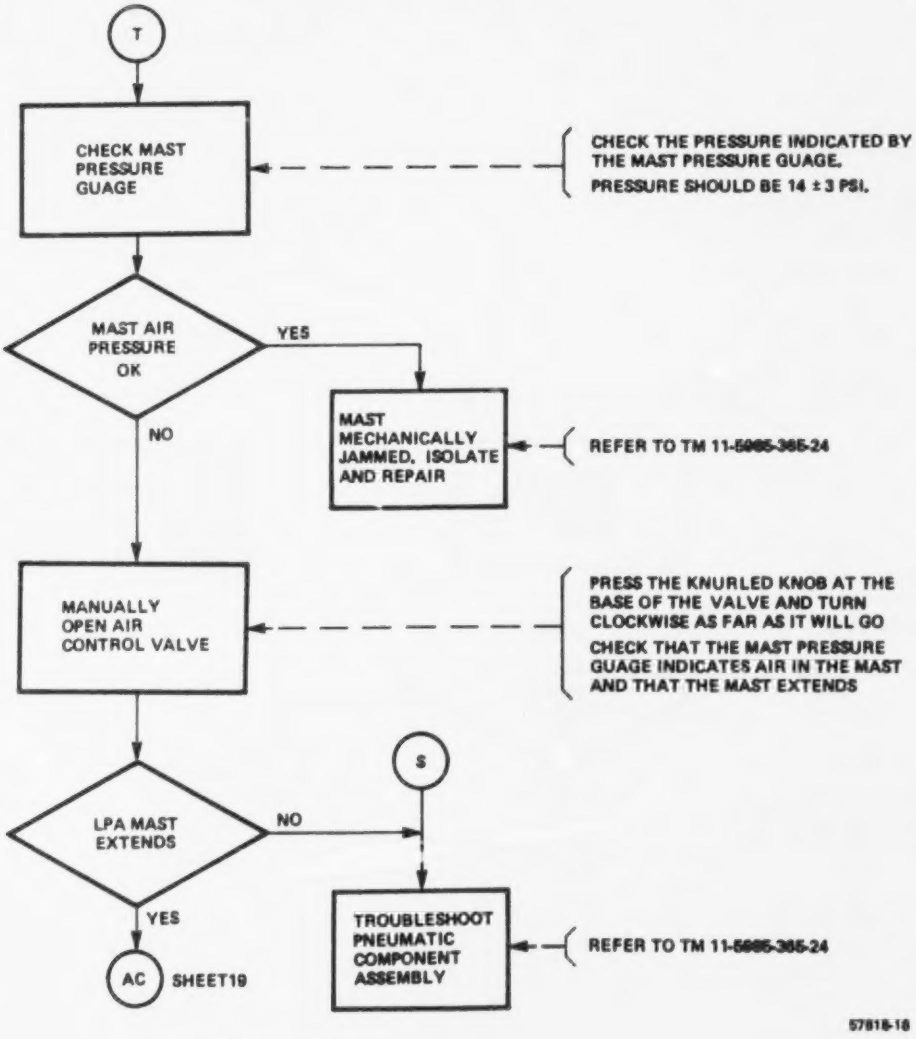

T
CHECK MAST PRESSURE GUAGE
CHECK THE PRESSURE INDICATED BY THE MAST PRESSURE GUAGE.
PRESSURE SHOULD BE 14 ± 3 PSI.
MAST AIR PRESSURE OK
YES
NO
MAST MECHANICALLY JAMMED, ISOLATE AND REPAIR
REFER TO TM 11-5985-365-24
MANUALLY OPEN AIR CONTROL VALVE
PRESS THE KNURLED KNOB AT THE BASE OF THE VALVE AND TURN CLOCKWISE AS FAR AS IT WILL GO
CHECK THAT THE MAST PRESSURE GUAGE INDICATES AIR IN THE MAST AND THAT THE MAST EXTENDS
S
LPA MAST EXTENDS
NO
YES
TROUBLESHOOT PNEUMATIC COMPONENT ASSEMBLY
REFER TO TM 11-5985-365-24
AC
SHEET19
57818-18

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 18 of 109)

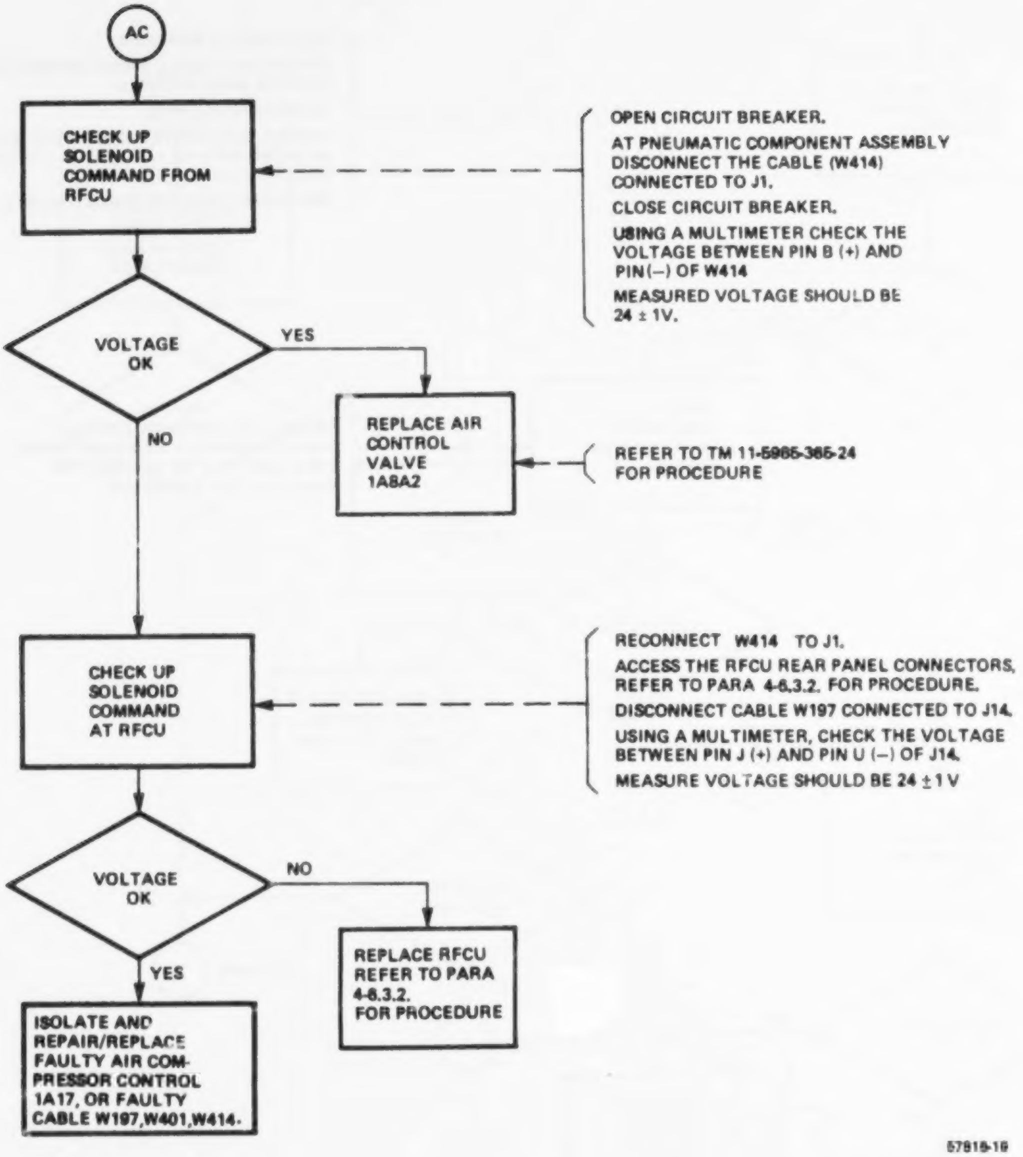

AC
CHECK UP SOLENOID COMMAND FROM RFCU
OPEN CIRCUIT BREAKER.
AT PNEUMATIC COMPONENT ASSEMBLY DISCONNECT THE CABLE (W414) CONNECTED TO J1.
CLOSE CIRCUIT BREAKER.
USING A MULTIMETER CHECK THE VOLTAGE BETWEEN PIN B (+) AND PIN(–) OF W414
MEASURED VOLTAGE SHOULD BE 24 ± 1V.
VOLTAGE OK
YES
NO
REPLACE AIR CONTROL VALVE 1A8A2
REFER TO TM 11-5965-365-24 FOR PROCEDURE
CHECK UP SOLENOID COMMAND AT RFCU
RECONNECT W414 TO J1.
ACCESS THE RFCU REAR PANEL CONNECTORS, REFER TO PARA 4-6.3.2. FOR PROCEDURE.
DISCONNECT CABLE W197 CONNECTED TO J14.
USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN J (+) AND PIN U (–) OF J14.
MEASURE VOLTAGE SHOULD BE 24 ± 1 V
VOLTAGE OK
NO
YES
REPLACE RFCU REFER TO PARA 4-6.3.2. FOR PROCEDURE
ISOLATE AND REPAIR/REPLACE FAULTY AIR COMPRESSOR CONTROL 1A17, OR FAULTY CABLE W197,W401,W414.
57815-19

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 19 of 109)

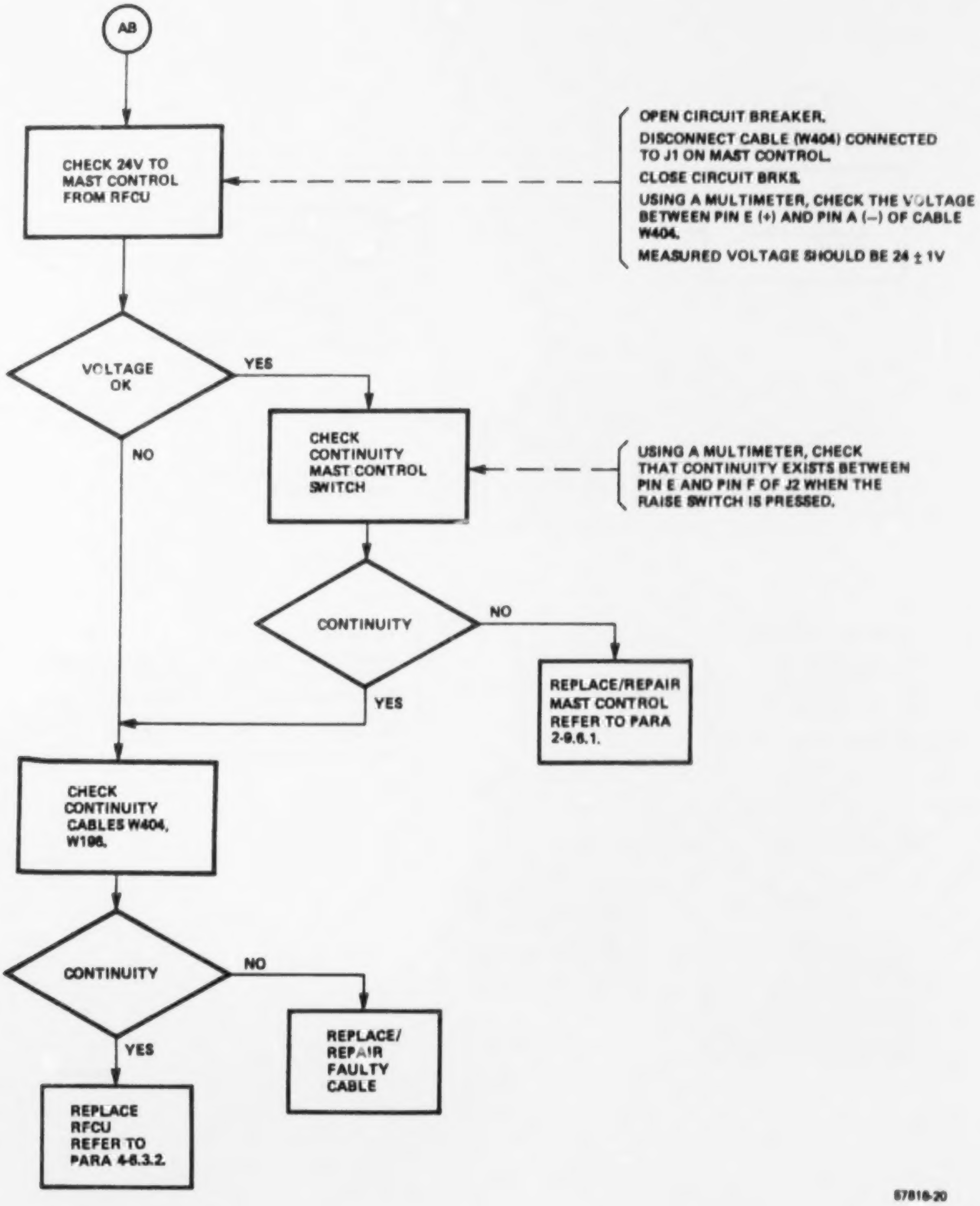

AB
CHECK 24V TO MAST CONTROL FROM RFCU
OPEN CIRCUIT BREAKER.
DISCONNECT CABLE (W404) CONNECTED TO J1 ON MAST CONTROL.
CLOSE CIRCUIT BRKS.
USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN E (+) AND PIN A (–) OF CABLE W404.
MEASURED VOLTAGE SHOULD BE 24 ± 1V
VOLTAGE OK
YES
NO
CHECK CONTINUITY MAST CONTROL SWITCH
USING A MULTIMETER, CHECK THAT CONTINUITY EXISTS BETWEEN PIN E AND PIN F OF J2 WHEN THE RAISE SWITCH IS PRESSED.
CONTINUITY
NO
YES
REPLACE/REPAIR MAST CONTROL REFER TO PARA 2-9.6.1.
CHECK CONTINUITY CABLES W404, W196.
CONTINUITY
NO
YES
REPLACE/ REPAIR FAULTY CABLE
REPLACE RFCU REFER TO PARA 4-6.3.2.
57816-20

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 20 of 109)

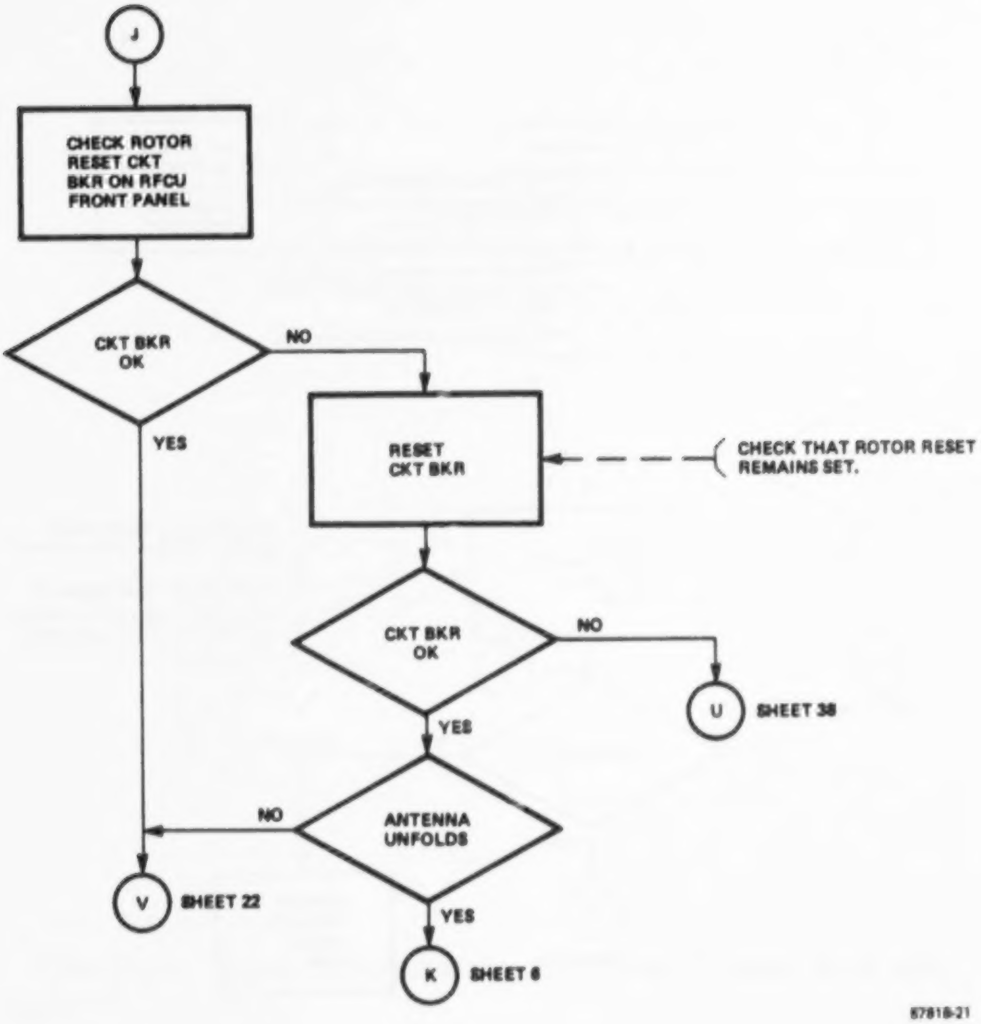


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 21 of 109)

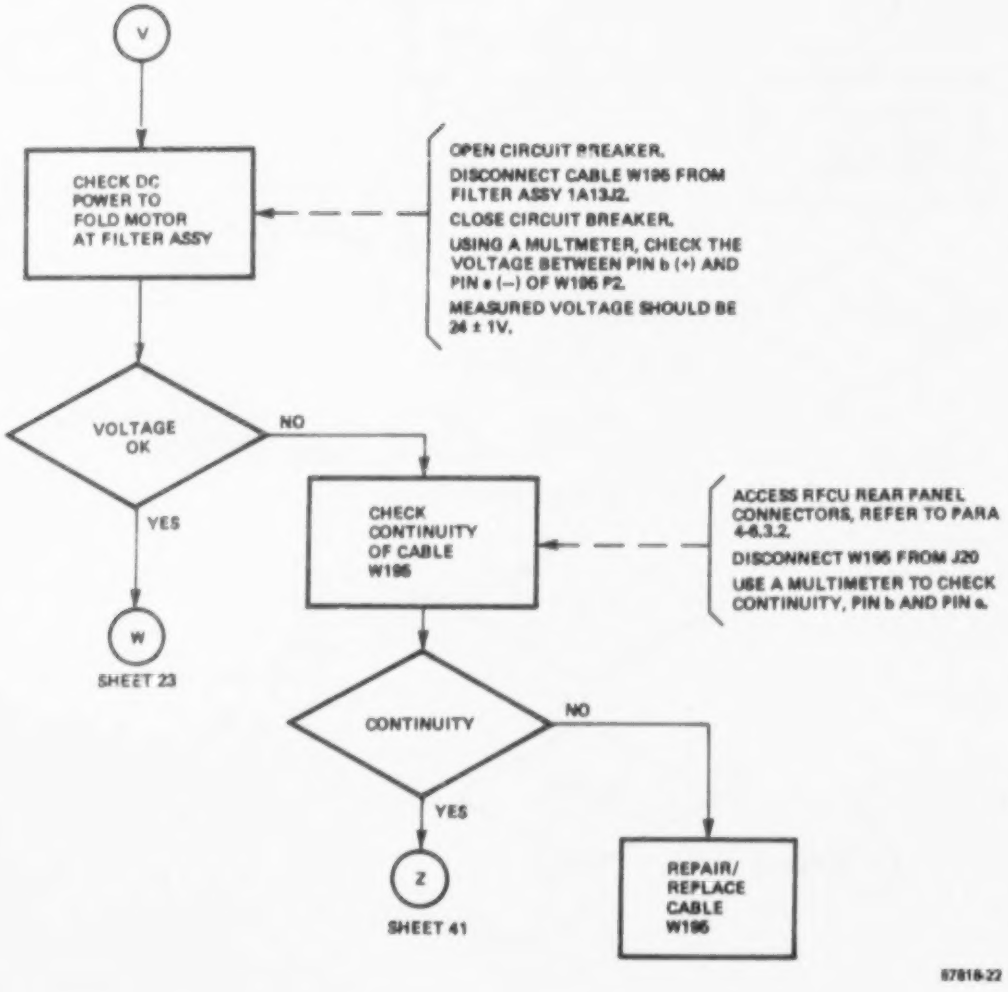
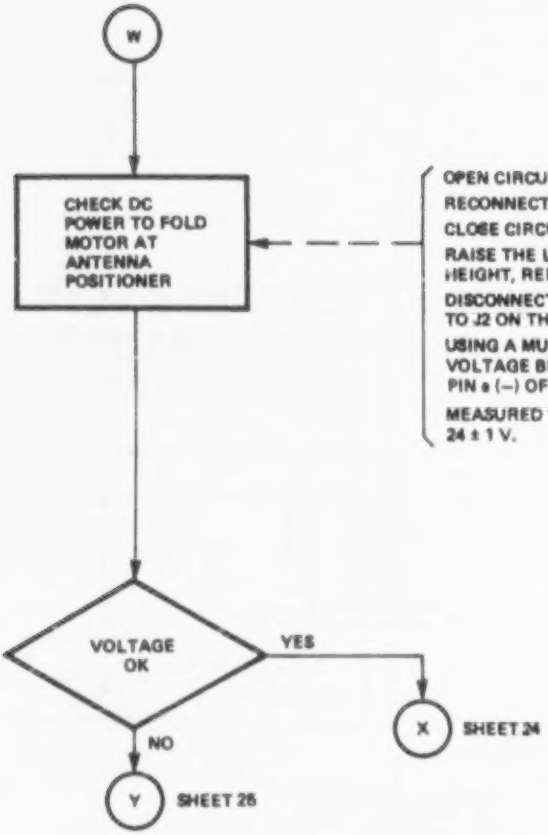

V
CHECK DC POWER TO FOLD MOTOR AT FILTER ASSY
OPEN CIRCUIT BREAKER.
DISCONNECT CABLE W196 FROM FILTER ASSY 1A13J2.
CLOSE CIRCUIT BREAKER.
USING A MULTMETER, CHECK THE VOLTAGE BETWEEN PIN b (+) AND PIN e (–) OF W196 P2.
MEASURED VOLTAGE SHOULD BE 24 ± 1V.
VOLTAGE OK
NO
YES
W
SHEET 23
CHECK CONTINUITY OF CABLE W196
ACCESS RFCU REAR PANEL CONNECTORS, REFER TO PARA 4-6.3.2.
DISCONNECT W196 FROM J20
USE A MULTIMETER TO CHECK CONTINUITY, PIN b AND PIN e.
CONTINUITY
NO
YES
Z
SHEET 41
REPAIR/ REPLACE CABLE W196
87818-22

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 22 of 109)



OPEN CIRCUIT BREAKER.

RECONNECT W195 TO 1A13J2.

CLOSE CIRCUIT BREAKER.

RAISE THE LPA MAST TO A CONVENIENT HEIGHT, REFER TO PARA 2-5.1.a.

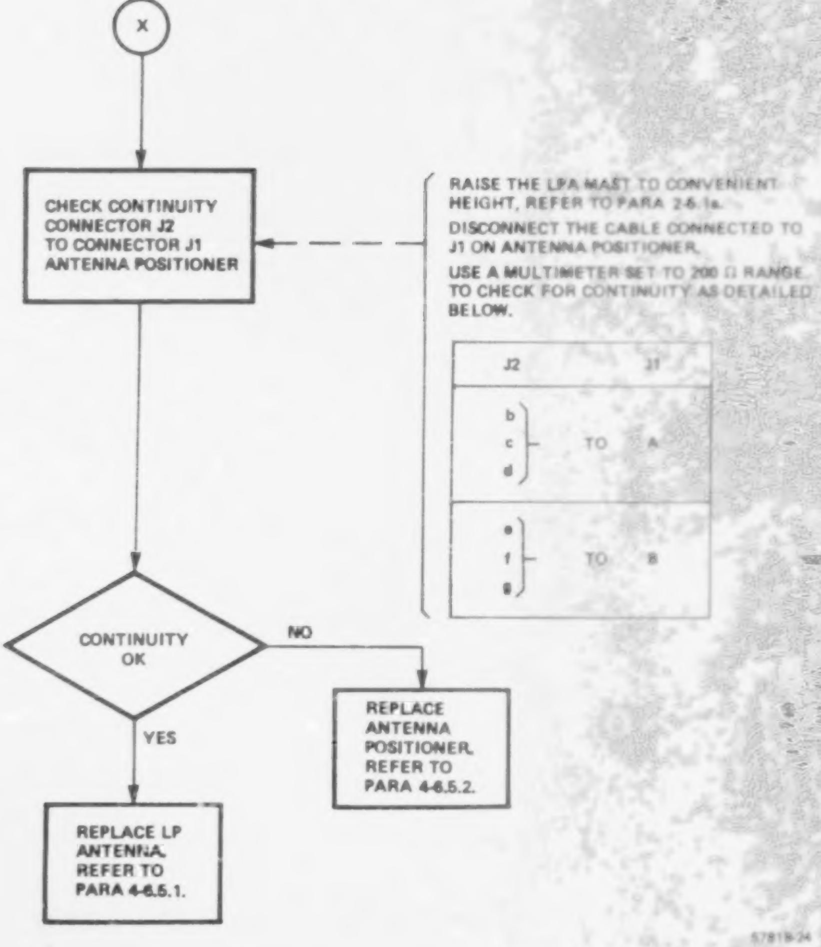
DISCONNECT CABLE W412 CONNECTED TO J2 ON THE ANTENNA POSITIONER.

USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN b (+) AND PIN a (–) OF W412.

MEASURED VOLTAGE SHOULD BE 24 ± 1 V.

57818-23

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 23 of 109)


X
CHECK CONTINUITY CONNECTOR J2 TO CONNECTOR J1 ANTENNA POSITIONER
CONTINUITY OK
NO
YES
REPLACE ANTENNA POSITIONER, REFER TO PARA 4-6.5.2.
REPLACE LP ANTENNA, REFER TO PARA 4-6.5.1.
57819-24

RAISE THE LPA MAST TO CONVENIENT HEIGHT, REFER TO PARA 2-6.1a.

DISCONNECT THE CABLE CONNECTED TO J1 ON ANTENNA POSITIONER.

USE A MULTIMETER SET TO 200 Ω RANGE TO CHECK FOR CONTINUITY AS DETAILED BELOW.

J2		J1
b c d	TO	A
e f g	TO	B

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 24 of 109)

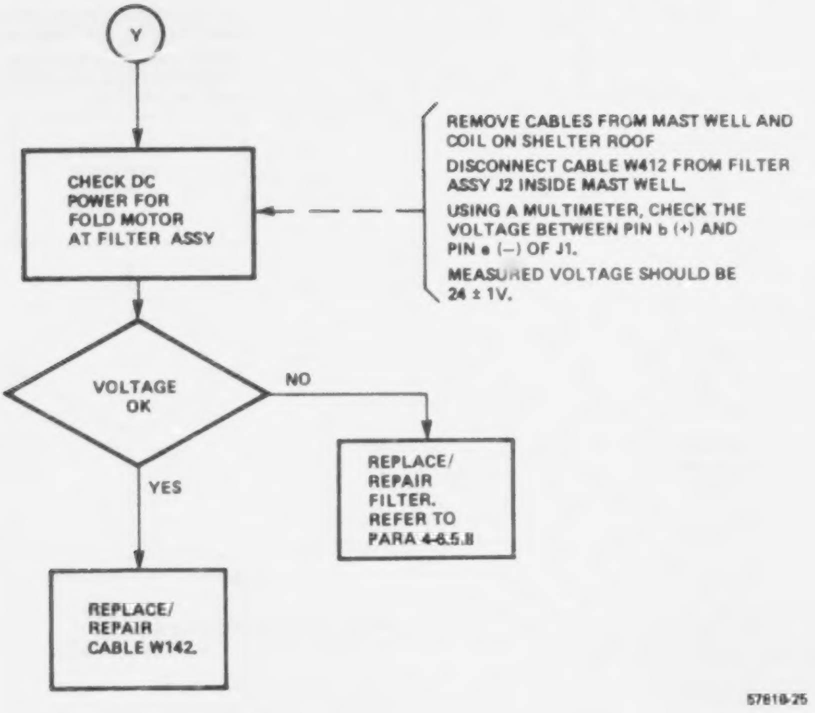
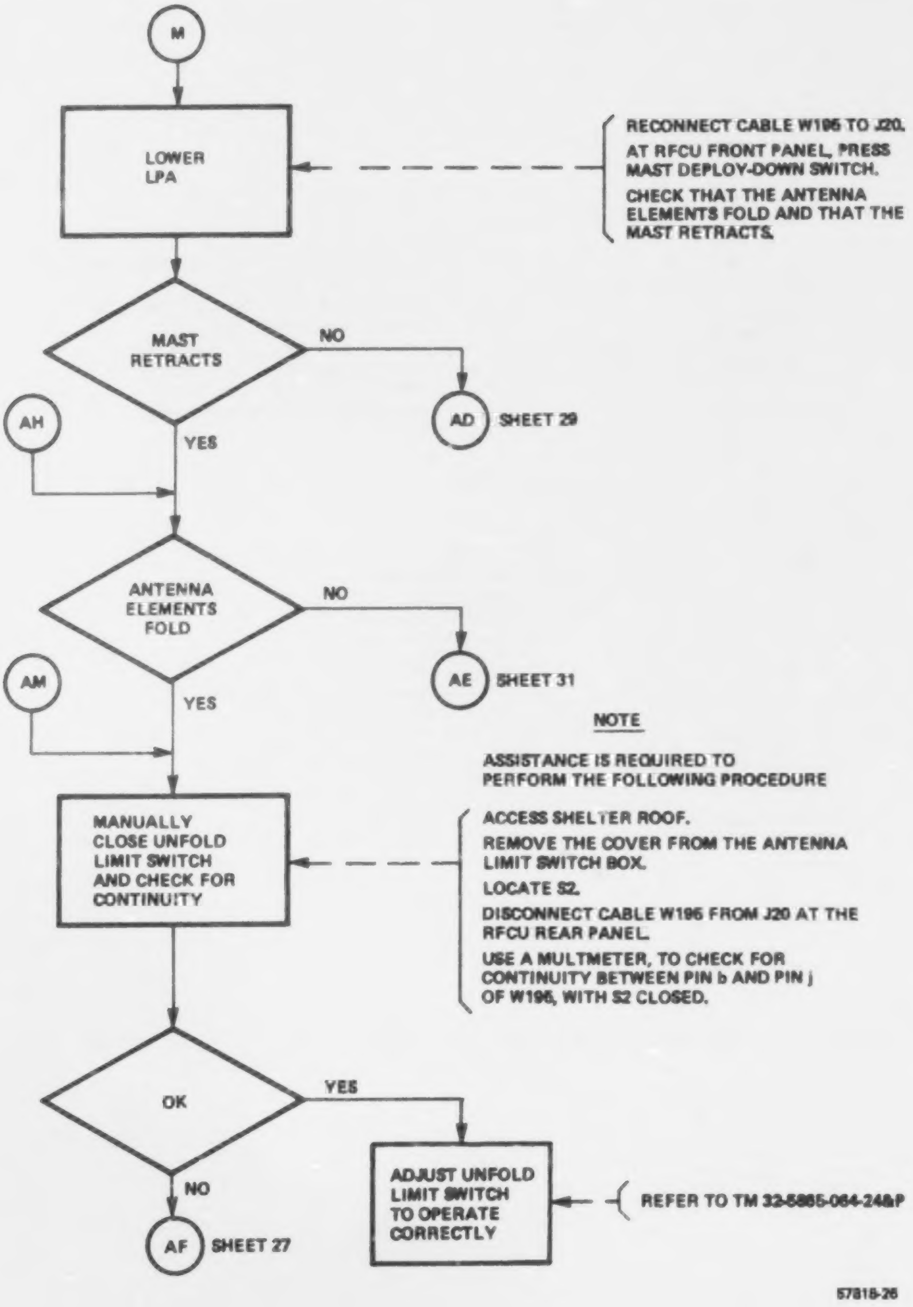

Y
CHECK DC POWER FOR FOLD MOTOR AT FILTER ASSY
REMOVE CABLES FROM MAST WELL AND COIL ON SHELTER ROOF
DISCONNECT CABLE W412 FROM FILTER ASSY J2 INSIDE MAST WELL.
USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN b (+) AND PIN e (–) OF J1.
MEASURED VOLTAGE SHOULD BE 24 ± 1V.
VOLTAGE OK
NO
REPLACE/ REPAIR FILTER. REFER TO PARA 4-6.5.II
YES
REPLACE/ REPAIR CABLE W142.
57610-25

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 25 of 109)


M
LOWER LPA
MAST RETRACTS
NO
AD
SHEET 29
AH
YES
ANTENNA ELEMENTS FOLD
NO
AE
SHEET 31
AM
YES
MANUALLY CLOSE UNFOLD LIMIT SWITCH AND CHECK FOR CONTINUITY
OK
YES
NO
AF
SHEET 27
ADJUST UNFOLD LIMIT SWITCH TO OPERATE CORRECTLY
57818-26

RECONNECT CABLE W196 TO J20.

AT RFCU FRONT PANEL, PRESS MAST DEPLOY-DOWN SWITCH.

CHECK THAT THE ANTENNA ELEMENTS FOLD AND THAT THE MAST RETRACTS.

NOTE

ASSISTANCE IS REQUIRED TO PERFORM THE FOLLOWING PROCEDURE

ACCESS SHELTER ROOF.

REMOVE THE COVER FROM THE ANTENNA LIMIT SWITCH BOX.

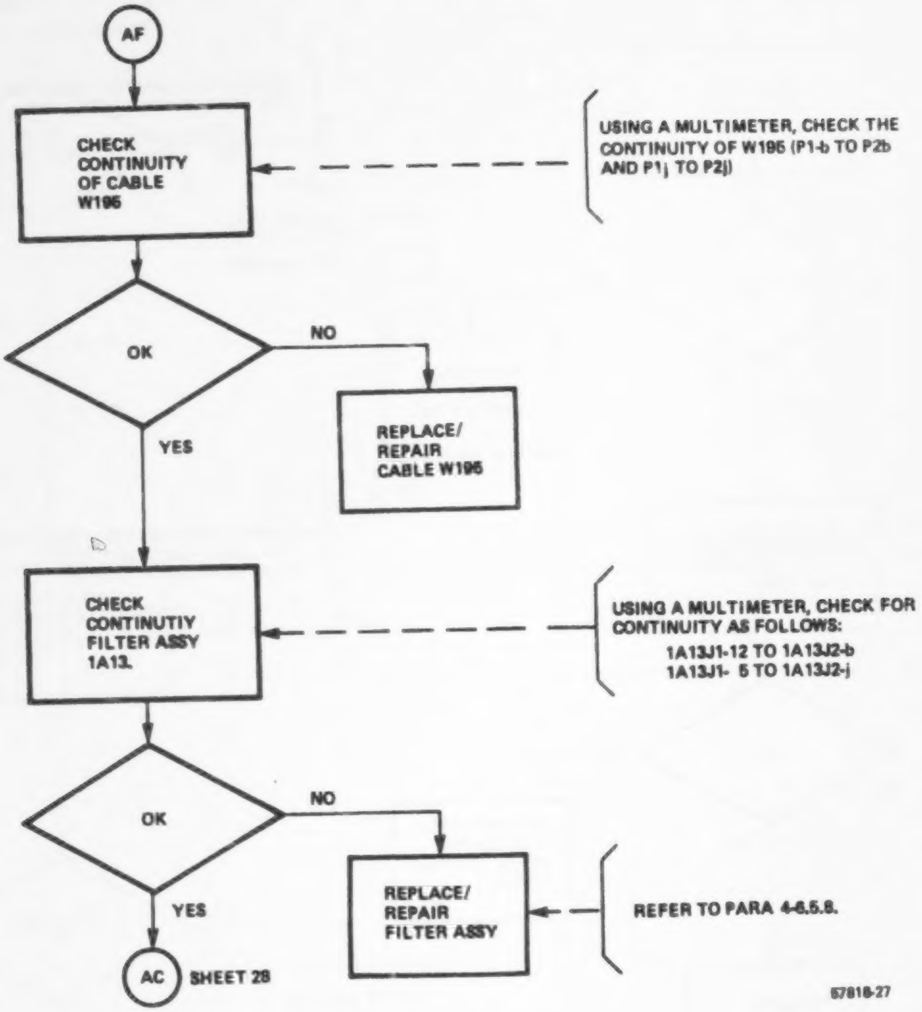
LOCATE S2.

DISCONNECT CABLE W196 FROM J20 AT THE RFCU REAR PANEL.

USE A MULTMETER, TO CHECK FOR CONTINUITY BETWEEN PIN b AND PIN j OF W196, WITH S2 CLOSED.

REFER TO TM 32-5865-064-24&P

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 26 of 109)


AF
CHECK CONTINUITY OF CABLE W196
OK
NO
YES
REPLACE/ REPAIR CABLE W196
CHECK CONTINUTIY FILTER ASSY 1A13.
OK
NO
YES
REPLACE/ REPAIR FILTER ASSY
AC
SHEET 28
57818-27

USING A MULTIMETER, CHECK THE CONTINUITY OF W196 (P1-b TO P2b AND P1j TO P2j)

USING A MULTIMETER, CHECK FOR CONTINUITY AS FOLLOWS:
1A13J1-12 TO 1A13J2-b
1A13J1- 5 TO 1A13J2-j

REFER TO PARA 4-6.5.8.

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 27 of 109)

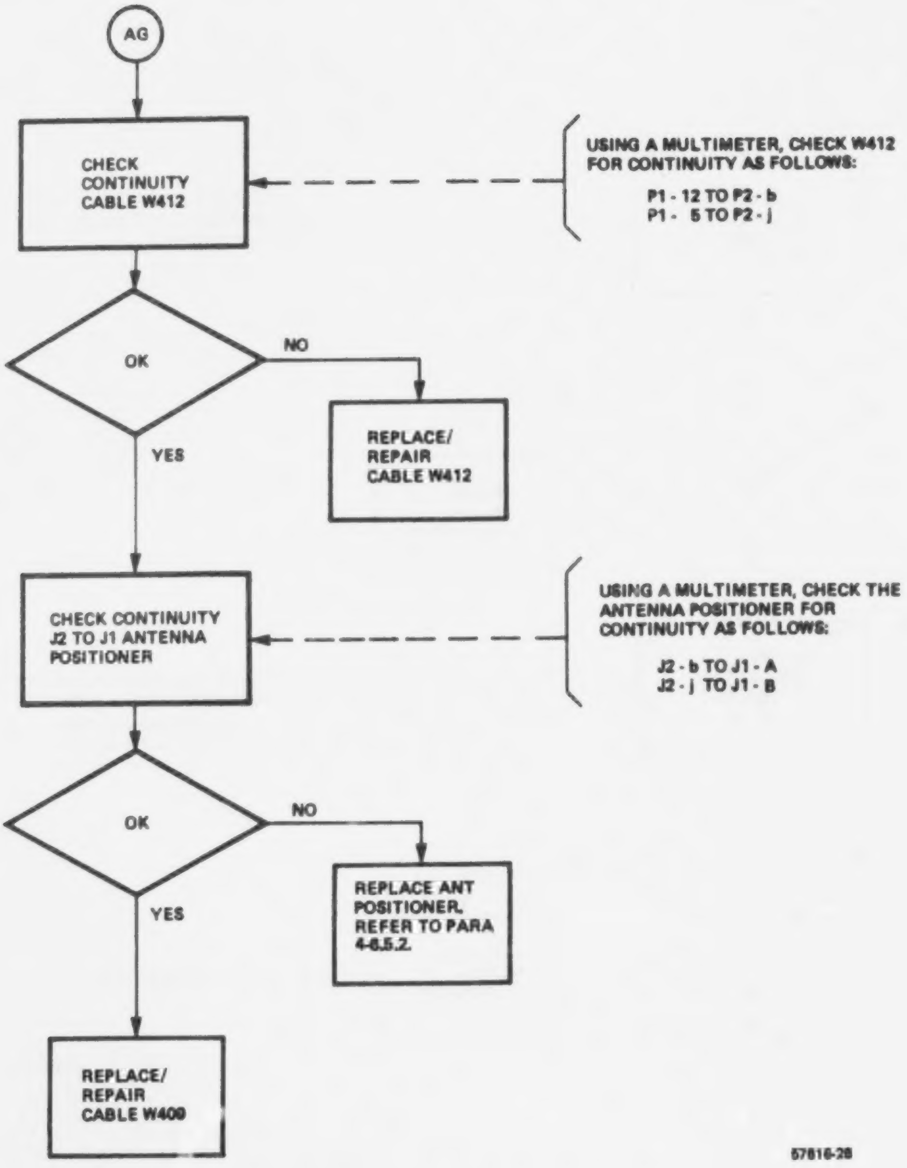

AG
CHECK CONTINUITY CABLE W412
USING A MULTIMETER, CHECK W412 FOR CONTINUITY AS FOLLOWS:
P1 - 12 TO P2 - b
P1 - 5 TO P2 - j
OK
NO
YES
REPLACE/ REPAIR CABLE W412
CHECK CONTINUITY J2 TO J1 ANTENNA POSITIONER
USING A MULTIMETER, CHECK THE ANTENNA POSITIONER FOR CONTINUITY AS FOLLOWS:
J2 - b TO J1 - A
J2 - j TO J1 - B
OK
NO
YES
REPLACE ANT POSITIONER. REFER TO PARA 4-6.5.2.
REPLACE/ REPAIR CABLE W400
57816-28

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 28 of 109)

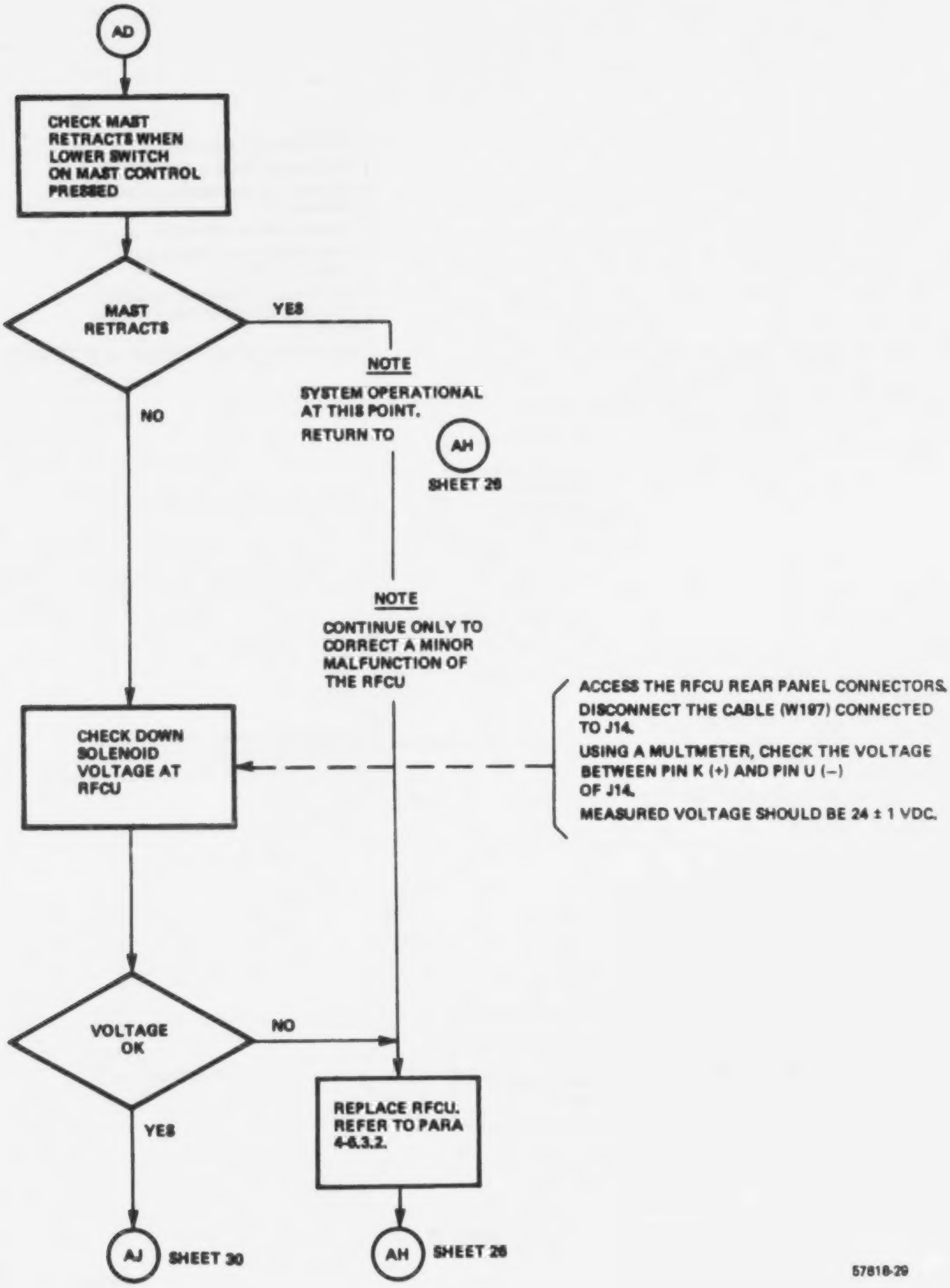
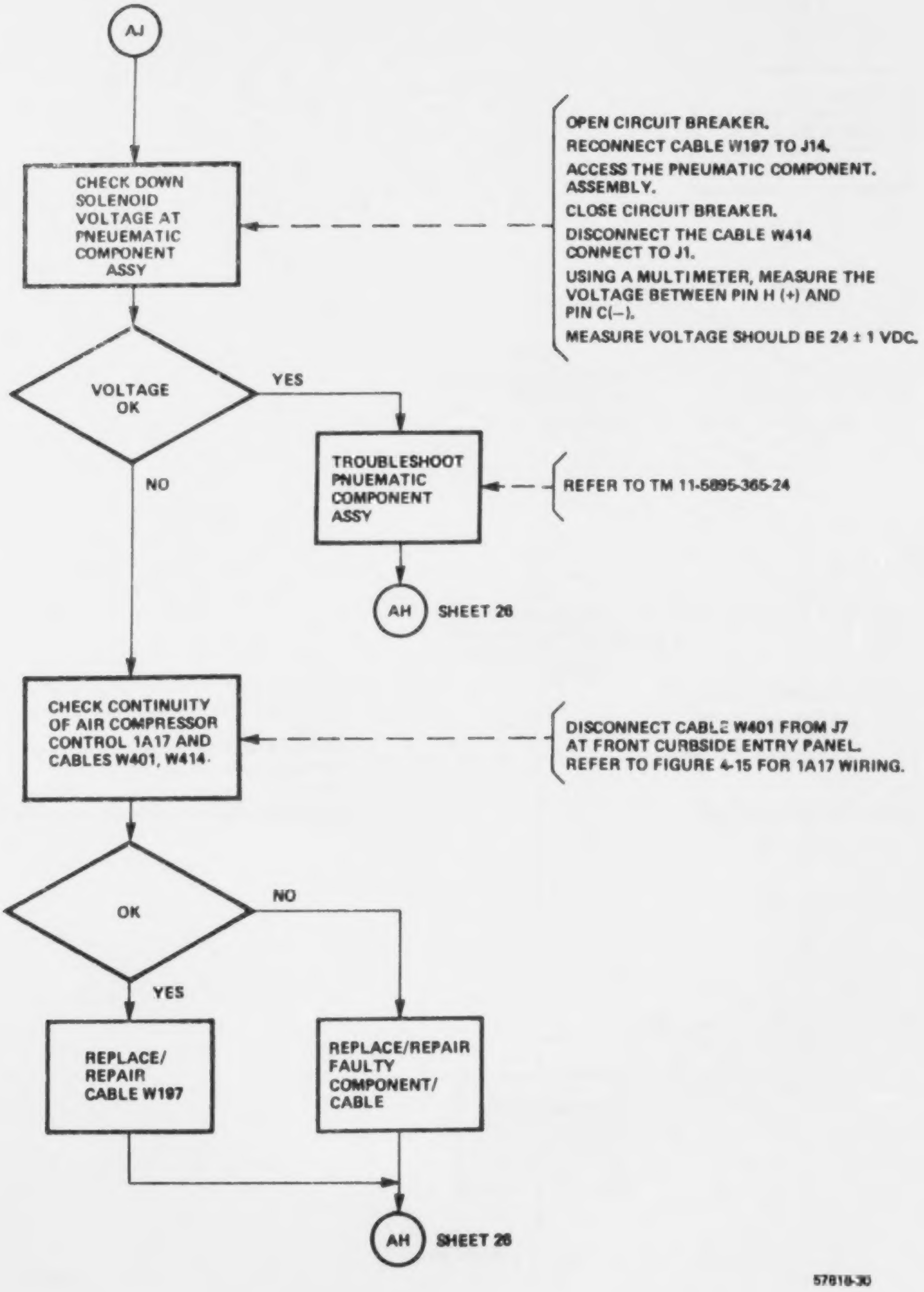

AD
CHECK MAST RETRACTS WHEN LOWER SWITCH ON MAST CONTROL PRESSED
MAST RETRACTS
YES
NOTE
SYSTEM OPERATIONAL AT THIS POINT.
RETURN TO
AH
SHEET 28
NO
NOTE
CONTINUE ONLY TO CORRECT A MINOR MALFUNCTION OF THE RFCU
CHECK DOWN SOLENOID VOLTAGE AT RFCU
ACCESS THE RFCU REAR PANEL CONNECTORS.
DISCONNECT THE CABLE (W197) CONNECTED TO J14.
USING A MULTMETER, CHECK THE VOLTAGE BETWEEN PIN K (+) AND PIN U (–) OF J14.
MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC.
VOLTAGE OK
NO
YES
REPLACE RFCU. REFER TO PARA 4-6.3.2.
AJ
SHEET 30
AH
SHEET 28
57818-29

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 29 of 109)


AJ
CHECK DOWN SOLENOID VOLTAGE AT PNEUEMATIC COMPONENT ASSY
VOLTAGE OK
YES
NO
TROUBLESHOOT PNUEMATIC COMPONENT ASSY
AH
SHEET 26
CHECK CONTINUITY OF AIR COMPRESSOR CONTROL 1A17 AND CABLES W401, W414.
OK
NO
YES
REPLACE/ REPAIR CABLE W197
REPLACE/REPAIR FAULTY COMPONENT/ CABLE
AH
SHEET 26
57818-30

OPEN CIRCUIT BREAKER.

RECONNECT CABLE W197 TO J14.

ACCESS THE PNEUMATIC COMPONENT. ASSEMBLY.

CLOSE CIRCUIT BREAKER.

DISCONNECT THE CABLE W414 CONNECT TO J1.

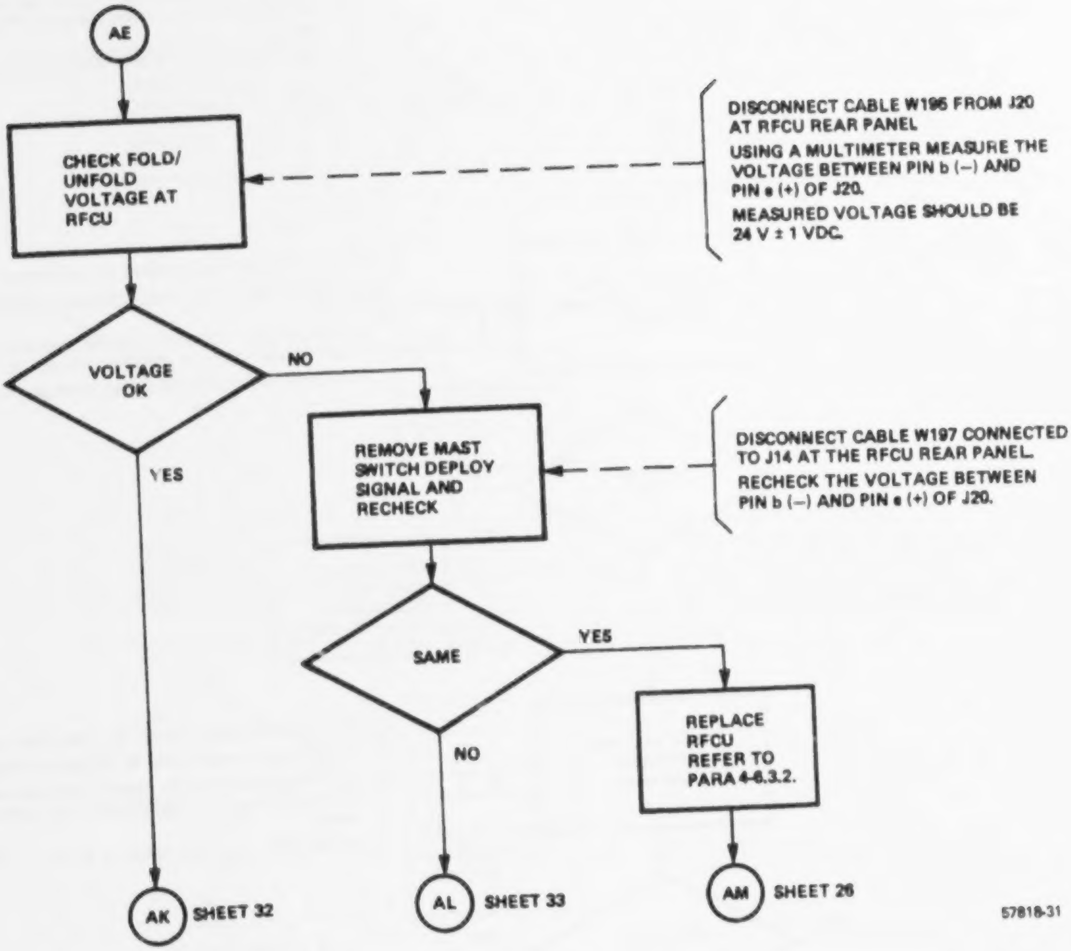
USING A MULTIMETER, MEASURE THE VOLTAGE BETWEEN PIN H (+) AND PIN C(–).

MEASURE VOLTAGE SHOULD BE 24 ± 1 VDC.

REFER TO TM 11-5895-365-24

DISCONNECT CABLE W401 FROM J7 AT FRONT CURBSIDE ENTRY PANEL. REFER TO FIGURE 4-15 FOR 1A17 WIRING.

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 30 of 109)


AE
CHECK FOLD/ UNFOLD VOLTAGE AT RFCU
VOLTAGE OK
NO
YES
REMOVE MAST SWITCH DEPLOY SIGNAL AND RECHECK
SAME
YES
NO
REPLACE RFCU REFER TO PARA 4-6.3.2.
AK
SHEET 32
AL
SHEET 33
AM
SHEET 26
57818-31

DISCONNECT CABLE W196 FROM J20 AT RFCU REAR PANEL

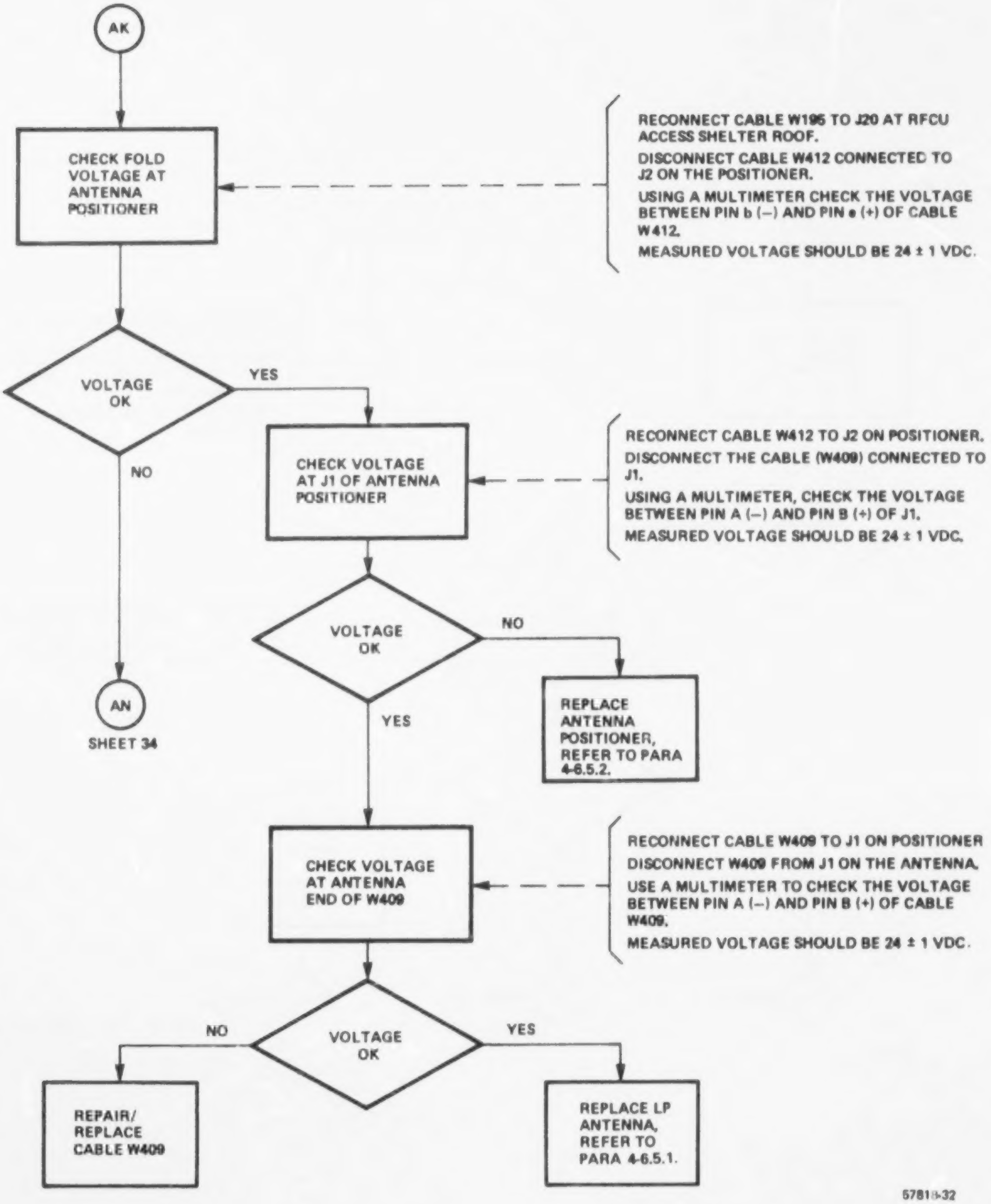
USING A MULTIMETER MEASURE THE VOLTAGE BETWEEN PIN b (–) AND PIN a (+) OF J20.

MEASURED VOLTAGE SHOULD BE 24 V ± 1 VDC.

DISCONNECT CABLE W197 CONNECTED TO J14 AT THE RFCU REAR PANEL.

RECHECK THE VOLTAGE BETWEEN PIN b (–) AND PIN a (+) OF J20.

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 31 of 109)


AK
CHECK FOLD VOLTAGE AT ANTENNA POSITIONER
VOLTAGE OK
YES
NO
CHECK VOLTAGE AT J1 OF ANTENNA POSITIONER
VOLTAGE OK
NO
YES
AN
SHEET 34
REPLACE ANTENNA POSITIONER, REFER TO PARA 4-6.5.2.
CHECK VOLTAGE AT ANTENNA END OF W409
VOLTAGE OK
NO
YES
REPAIR/ REPLACE CABLE W409
REPLACE LP ANTENNA, REFER TO PARA 4-6.5.1.
57818-32

RECONNECT CABLE W196 TO J20 AT RFCU ACCESS SHELTER ROOF.

DISCONNECT CABLE W412 CONNECTED TO J2 ON THE POSITIONER.

USING A MULTIMETER CHECK THE VOLTAGE BETWEEN PIN b (–) AND PIN e (+) OF CABLE W412.

MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC.

RECONNECT CABLE W412 TO J2 ON POSITIONER.

DISCONNECT THE CABLE (W409) CONNECTED TO J1.

USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN A (–) AND PIN B (+) OF J1.

MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC.

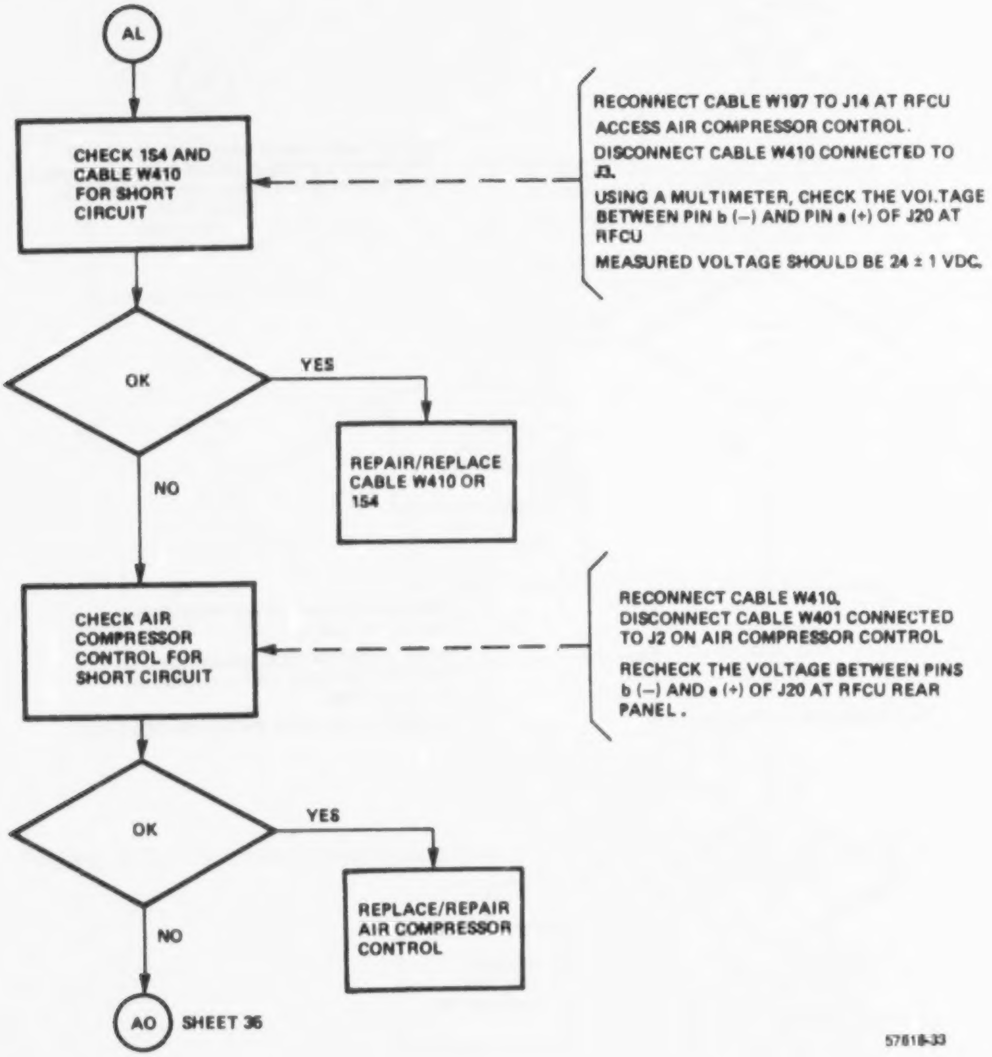
RECONNECT CABLE W409 TO J1 ON POSITIONER

DISCONNECT W409 FROM J1 ON THE ANTENNA.

USE A MULTIMETER TO CHECK THE VOLTAGE BETWEEN PIN A (–) AND PIN B (+) OF CABLE W409.

MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC.

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 32 of 109)


AL
CHECK 1S4 AND CABLE W410 FOR SHORT CIRCUIT
OK
YES
REPAIR/REPLACE CABLE W410 OR 1S4
NO
CHECK AIR COMPRESSOR CONTROL FOR SHORT CIRCUIT
OK
YES
REPLACE/REPAIR AIR COMPRESSOR CONTROL
NO
AO
SHEET 35
57818-33

RECONNECT CABLE W197 TO J14 AT RFCU

ACCESS AIR COMPRESSOR CONTROL.

DISCONNECT CABLE W410 CONNECTED TO J3.

USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN b (–) AND PIN a (+) OF J20 AT RFCU

MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC.

RECONNECT CABLE W410.
DISCONNECT CABLE W401 CONNECTED TO J2 ON AIR COMPRESSOR CONTROL

RECHECK THE VOLTAGE BETWEEN PINS b (–) AND a (+) OF J20 AT RFCU REAR PANEL.

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 33 of 109)

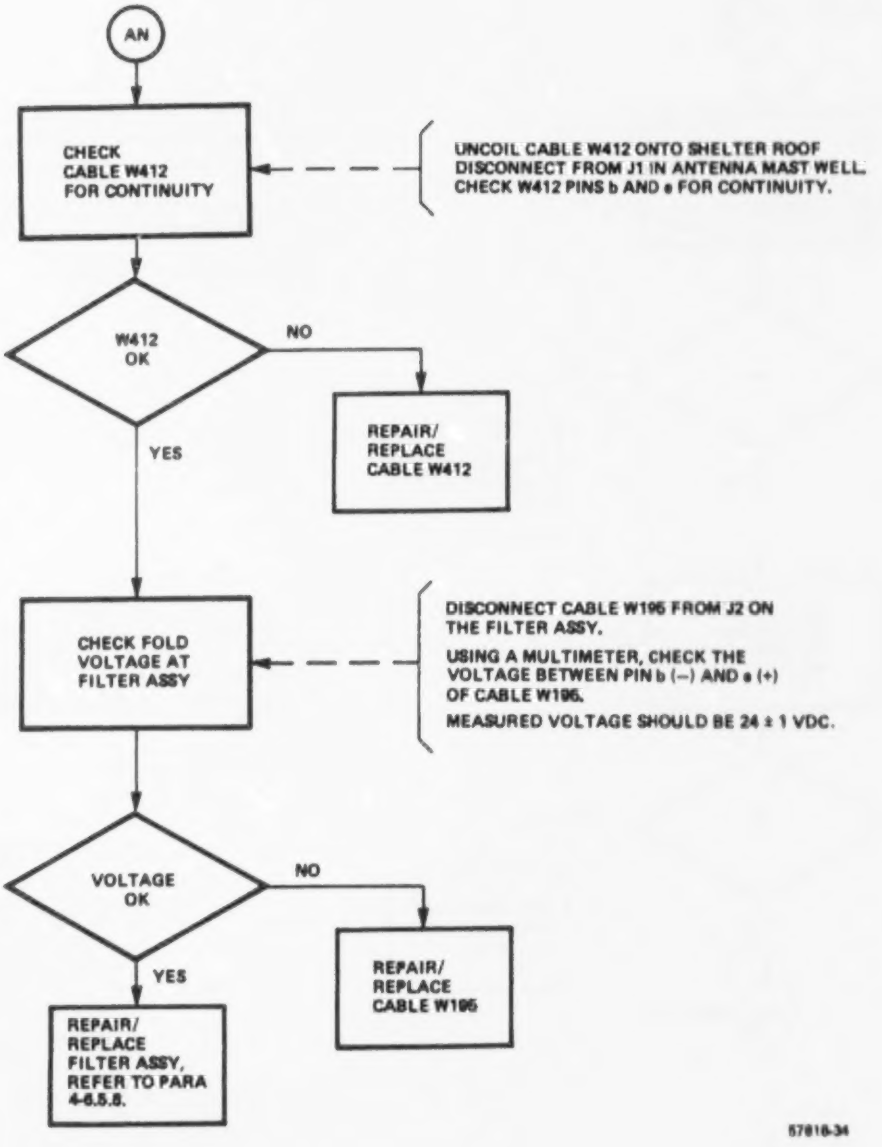
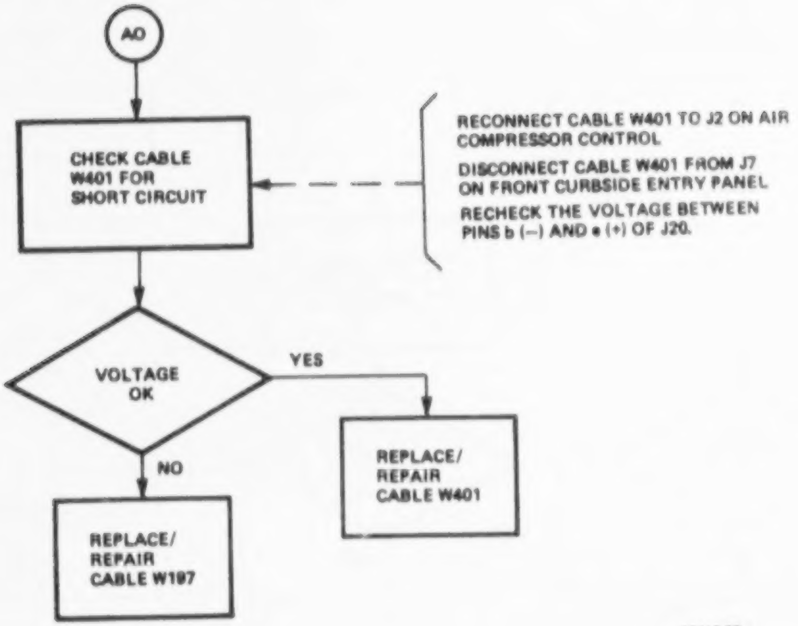

AN
CHECK CABLE W412 FOR CONTINUITY
UNCOIL CABLE W412 ONTO SHELTER ROOF
DISCONNECT FROM J1 IN ANTENNA MAST WELL.
CHECK W412 PINS b AND a FOR CONTINUITY.
W412 OK
NO
REPAIR/ REPLACE CABLE W412
YES
CHECK FOLD VOLTAGE AT FILTER ASSY
DISCONNECT CABLE W195 FROM J2 ON THE FILTER ASSY.
USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN b (–) AND a (+) OF CABLE W195.
MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC.
VOLTAGE OK
NO
REPAIR/ REPLACE CABLE W195
YES
REPAIR/ REPLACE FILTER ASSY, REFER TO PARA 4-6.5.8.
57816-34

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 34 of 109)


AO
CHECK CABLE W401 FOR SHORT CIRCUIT
VOLTAGE OK
YES
NO
REPLACE/ REPAIR CABLE W401
REPLACE/ REPAIR CABLE W197
57818-35

RECONNECT CABLE W401 TO J2 ON AIR COMPRESSOR CONTROL

DISCONNECT CABLE W401 FROM J7 ON FRONT CURBSIDE ENTRY PANEL

RECHECK THE VOLTAGE BETWEEN PINS b (–) AND e (+) OF J20.

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 35 of 109)

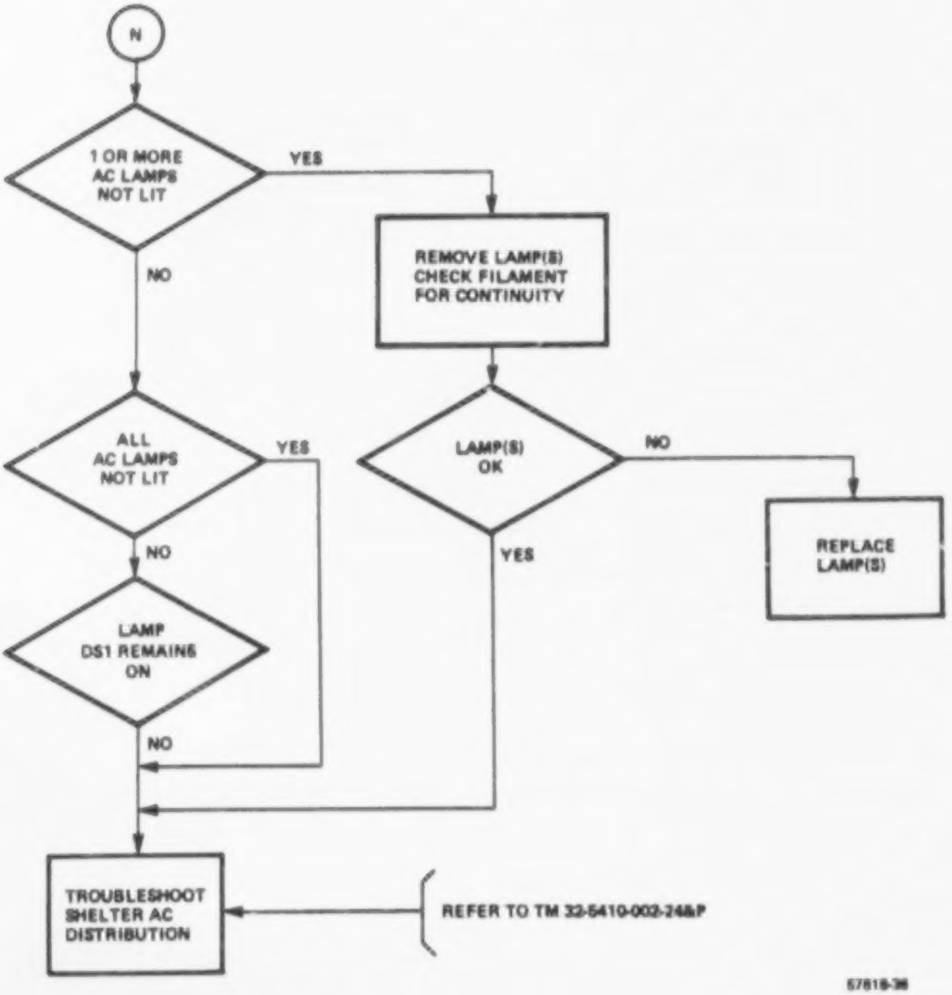
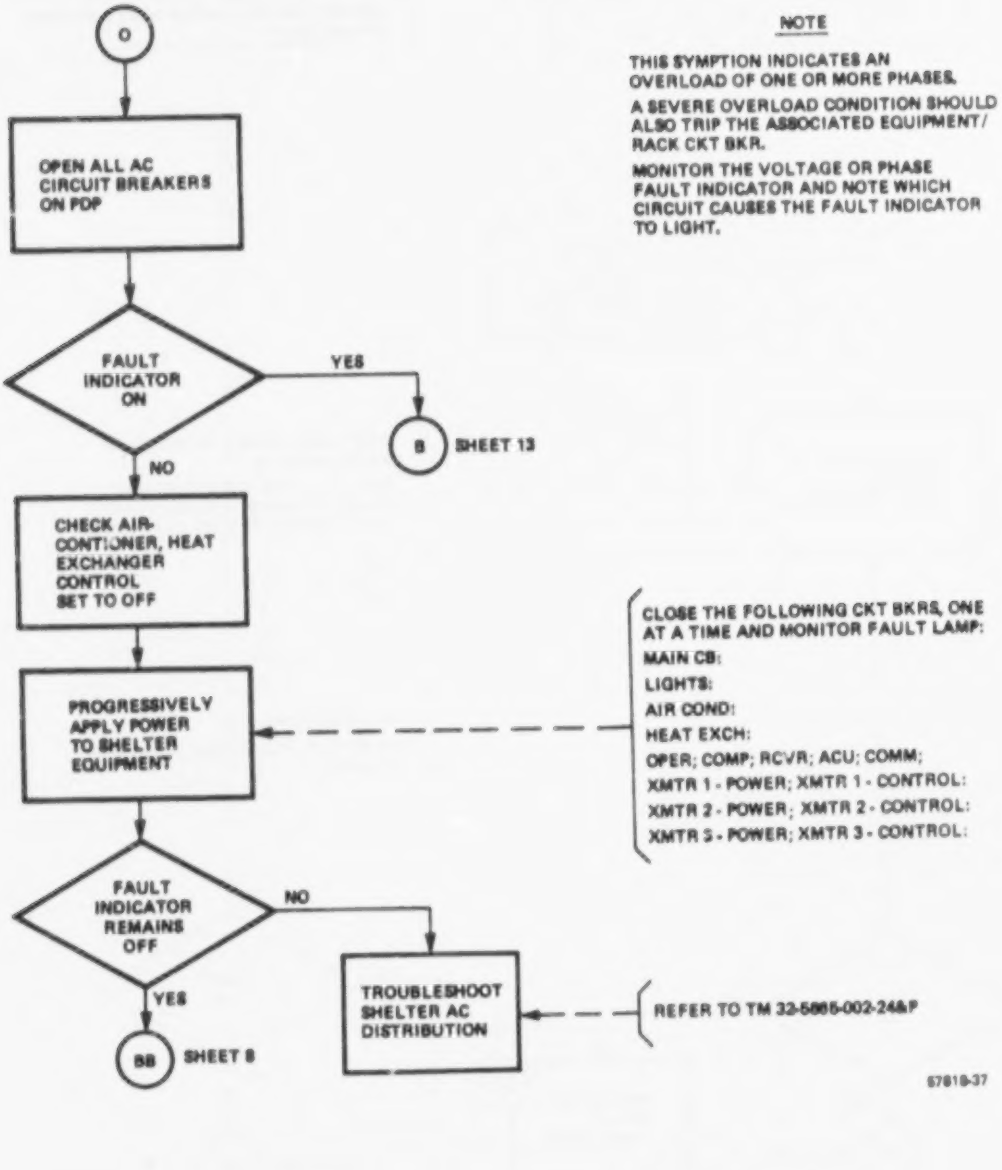

N
1 OR MORE AC LAMPS NOT LIT
YES
NO
REMOVE LAMP(S) CHECK FILAMENT FOR CONTINUITY
ALL AC LAMPS NOT LIT
YES
NO
LAMP(S) OK
NO
YES
REPLACE LAMP(S)
LAMP DS1 REMAINS ON
NO
TROUBLESHOOT SHELTER AC DISTRIBUTION
REFER TO TM 32-5410-002-24&P
57818-36

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 36 of 109)


O
OPEN ALL AC CIRCUIT BREAKERS ON PDP
FAULT INDICATOR ON
YES
B
SHEET 13
NO
CHECK AIR-CONTIONER, HEAT EXCHANGER CONTROL SET TO OFF
PROGRESSIVELY APPLY POWER TO SHELTER EQUIPMENT
FAULT INDICATOR REMAINS OFF
NO
YES
BB
SHEET 8
TROUBLESHOOT SHELTER AC DISTRIBUTION
57819-37

NOTE

THIS SYMPTION INDICATES AN OVERLOAD OF ONE OR MORE PHASES.

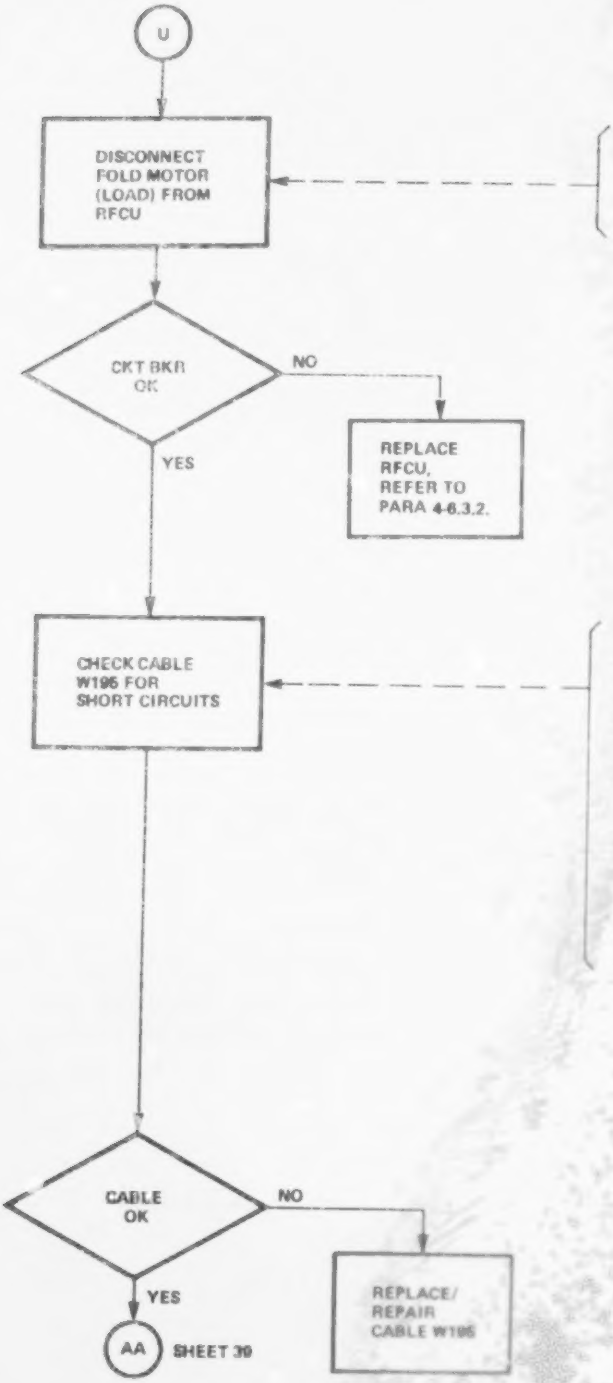
A SEVERE OVERLOAD CONDITION SHOULD ALSO TRIP THE ASSOCIATED EQUIPMENT/ RACK CKT BKR.

MONITOR THE VOLTAGE OR PHASE FAULT INDICATOR AND NOTE WHICH CIRCUIT CAUSES THE FAULT INDICATOR TO LIGHT.

CLOSE THE FOLLOWING CKT BKRS, ONE AT A TIME AND MONITOR FAULT LAMP:
MAIN CB:
LIGHTS:
AIR COND:
HEAT EXCH:
OPER; COMP; RCVR; ACU; COMM;
XMTR 1 - POWER; XMTR 1 - CONTROL:
XMTR 2 - POWER; XMTR 2 - CONTROL:
XMTR 3 - POWER; XMTR 3 - CONTROL:

REFER TO TM 32-5865-002-24&P

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 37 of 109)


U
DISCONNECT FOLD MOTOR (LOAD) FROM RFCU
CKT BKR OK
NO
REPLACE RFCU, REFER TO PARA 4-6.3.2.
YES
CHECK CABLE W195 FOR SHORT CIRCUITS
CABLE OK
NO
REPLACE/ REPAIR CABLE W195
YES
AA
SHEET 39

ACCESS RFCU REAR PANEL CONNECTORS. REFER TO PARA 4-6.3.2. FOR PROCEDURE

DISCONNECT AS CABLE (W195) FROM J20

CHECK THAT THE ROTOR RESET CKT BKR CAN BE RESET

DISCONNECT CABLE (W195) FROM FILTER ASSY, J2.

USE A MULTIMETER SET TO 20MΩ RANGE TO CHECK THE RESISTANCE BETWEEN PINS OF W195 AS FOLLOWS:

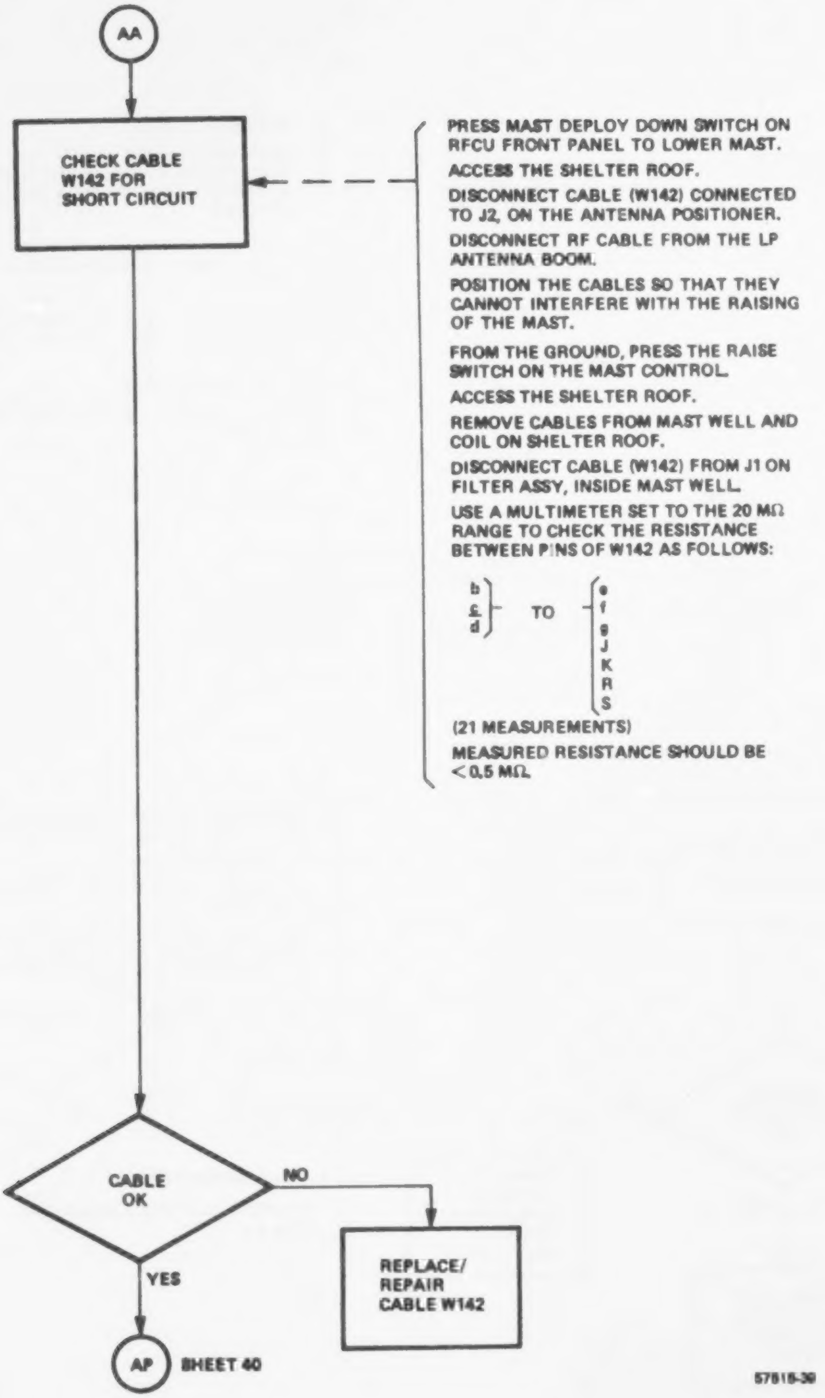
$$\left.\begin{matrix} b \\ c \\ d \end{matrix}\right\} \text{TO} \left\{\begin{matrix} e \\ f \\ g \\ J \\ K \\ R \\ S \end{matrix}\right.$$

(21 MEASUREMENTS)

MEASURED RESISTANCE SHOULD BE > 0.5 MΩ

57818-38

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 38 of 109)


AA
CHECK CABLE W142 FOR SHORT CIRCUIT
CABLE OK
NO
YES
REPLACE/ REPAIR CABLE W142
AP
SHEET 40
57818-39

PRESS MAST DEPLOY DOWN SWITCH ON RFCU FRONT PANEL TO LOWER MAST.

ACCESS THE SHELTER ROOF.

DISCONNECT CABLE (W142) CONNECTED TO J2, ON THE ANTENNA POSITIONER.

DISCONNECT RF CABLE FROM THE LP ANTENNA BOOM.

POSITION THE CABLES SO THAT THEY CANNOT INTERFERE WITH THE RAISING OF THE MAST.

FROM THE GROUND, PRESS THE RAISE SWITCH ON THE MAST CONTROL.

ACCESS THE SHELTER ROOF.

REMOVE CABLES FROM MAST WELL AND COIL ON SHELTER ROOF.

DISCONNECT CABLE (W142) FROM J1 ON FILTER ASSY, INSIDE MAST WELL.

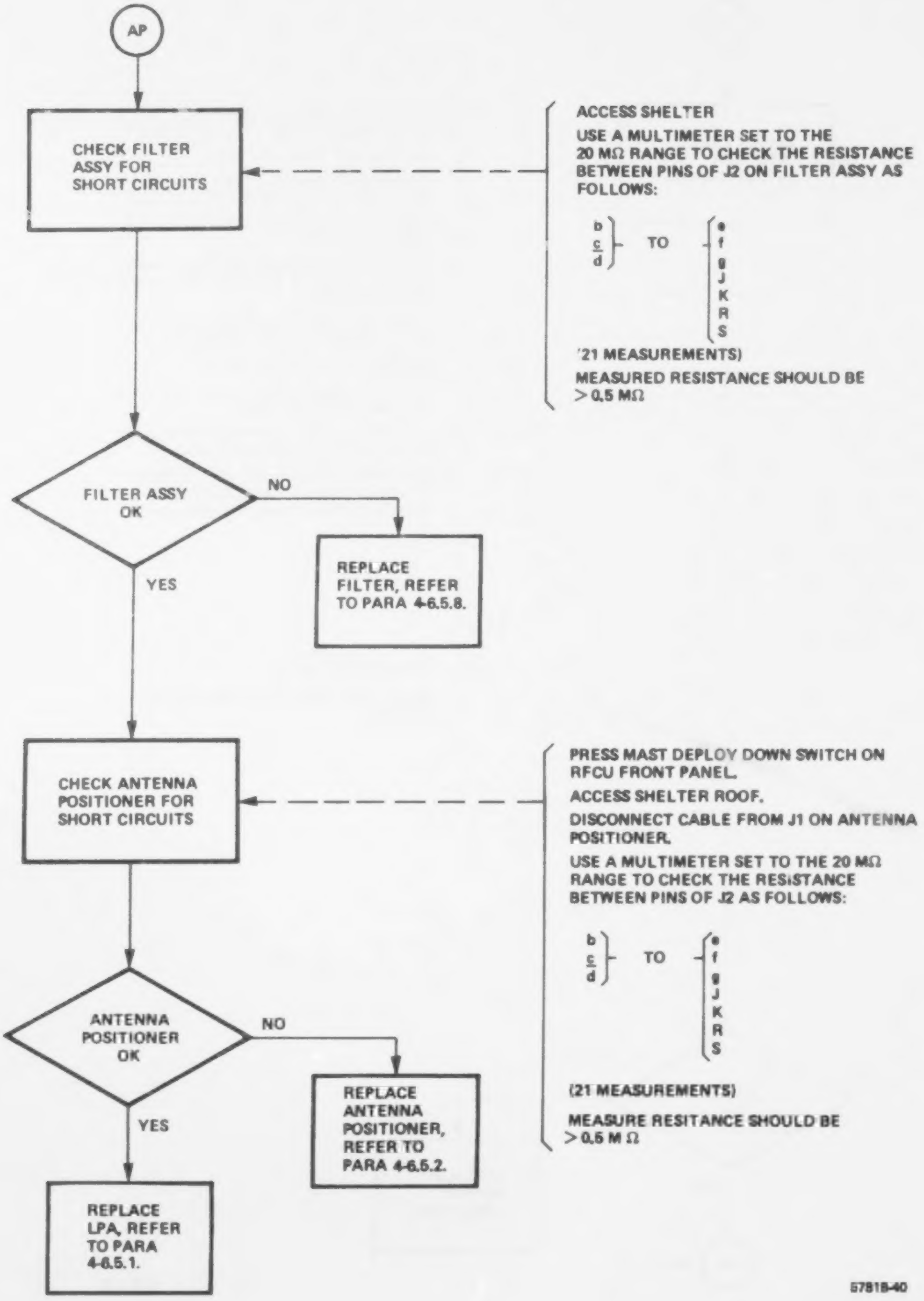
USE A MULTIMETER SET TO THE 20 MΩ RANGE TO CHECK THE RESISTANCE BETWEEN PINS OF W142 AS FOLLOWS:

b, c, d TO e, f, g, J, K, R, S

(21 MEASUREMENTS)

MEASURED RESISTANCE SHOULD BE < 0.5 MΩ.

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 39 of 109)


AP
CHECK FILTER ASSY FOR SHORT CIRCUITS
FILTER ASSY OK
NO
YES
REPLACE FILTER, REFER TO PARA 4-6.5.8.
CHECK ANTENNA POSITIONER FOR SHORT CIRCUITS
ANTENNA POSITIONER OK
NO
YES
REPLACE ANTENNA POSITIONER, REFER TO PARA 4-6.5.2.
REPLACE LPA, REFER TO PARA 4-6.5.1.
57818-40

ACCESS SHELTER

USE A MULTIMETER SET TO THE 20 MΩ RANGE TO CHECK THE RESISTANCE BETWEEN PINS OF J2 ON FILTER ASSY AS FOLLOWS:

b, c, d TO e, f, g, J, K, R, S

(21 MEASUREMENTS)

MEASURED RESISTANCE SHOULD BE > 0.5 MΩ

PRESS MAST DEPLOY DOWN SWITCH ON RFCU FRONT PANEL.

ACCESS SHELTER ROOF.

DISCONNECT CABLE FROM J1 ON ANTENNA POSITIONER.

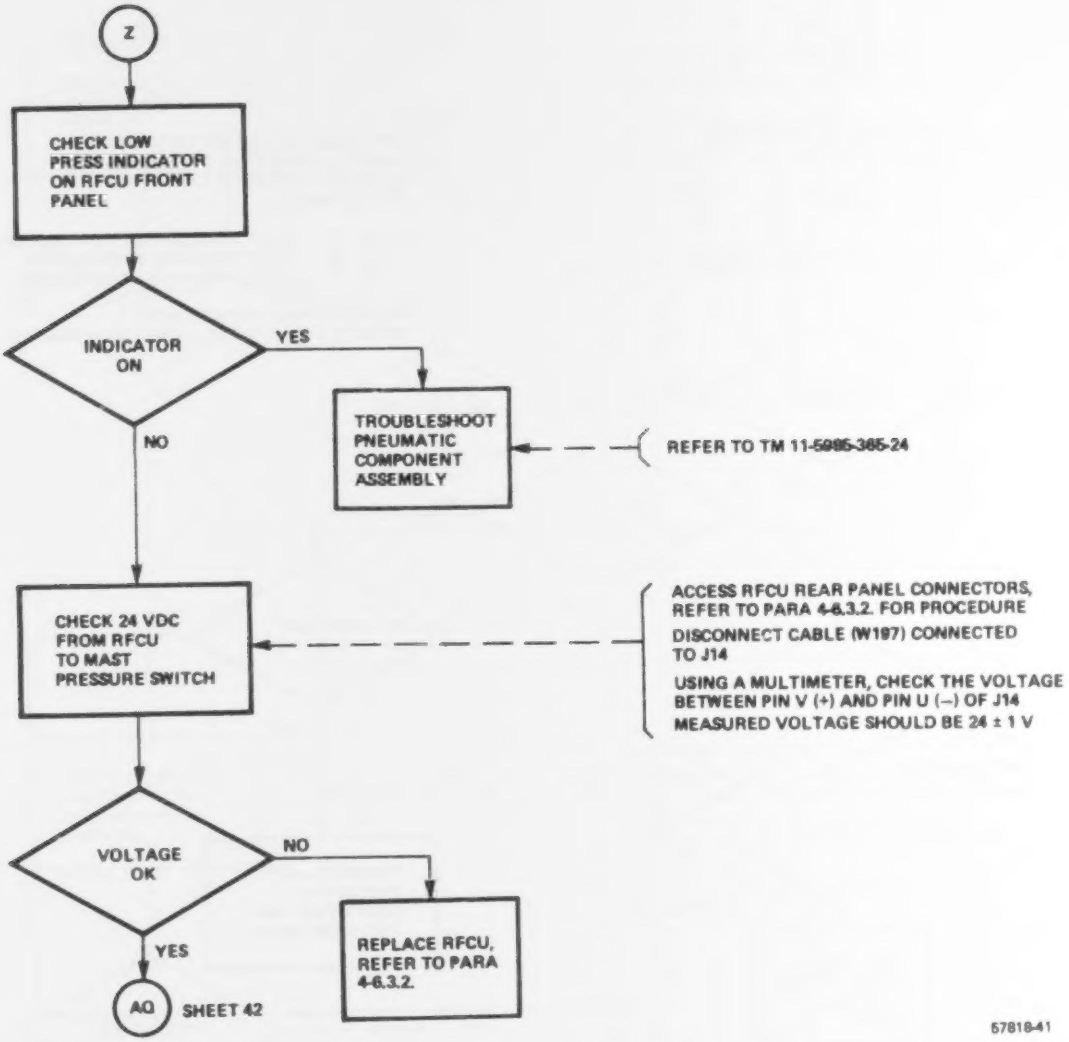
USE A MULTIMETER SET TO THE 20 MΩ RANGE TO CHECK THE RESISTANCE BETWEEN PINS OF J2 AS FOLLOWS:

b, c, d TO e, f, g, J, K, R, S

(21 MEASUREMENTS)

MEASURE RESITANCE SHOULD BE > 0.5 M Ω

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 40 of 109)


Z
CHECK LOW PRESS INDICATOR ON RFCU FRONT PANEL
INDICATOR ON
YES
NO
TROUBLESHOOT PNEUMATIC COMPONENT ASSEMBLY
CHECK 24 VDC FROM RFCU TO MAST PRESSURE SWITCH
VOLTAGE OK
NO
YES
REPLACE RFCU, REFER TO PARA 4-6.3.2.
AQ
SHEET 42
57818-41

REFER TO TM 11-5985-365-24

ACCESS RFCU REAR PANEL CONNECTORS, REFER TO PARA 4-6.3.2. FOR PROCEDURE

DISCONNECT CABLE (W197) CONNECTED TO J14

USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN V (+) AND PIN U (–) OF J14

MEASURED VOLTAGE SHOULD BE 24 ± 1 V

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 41 of 109)

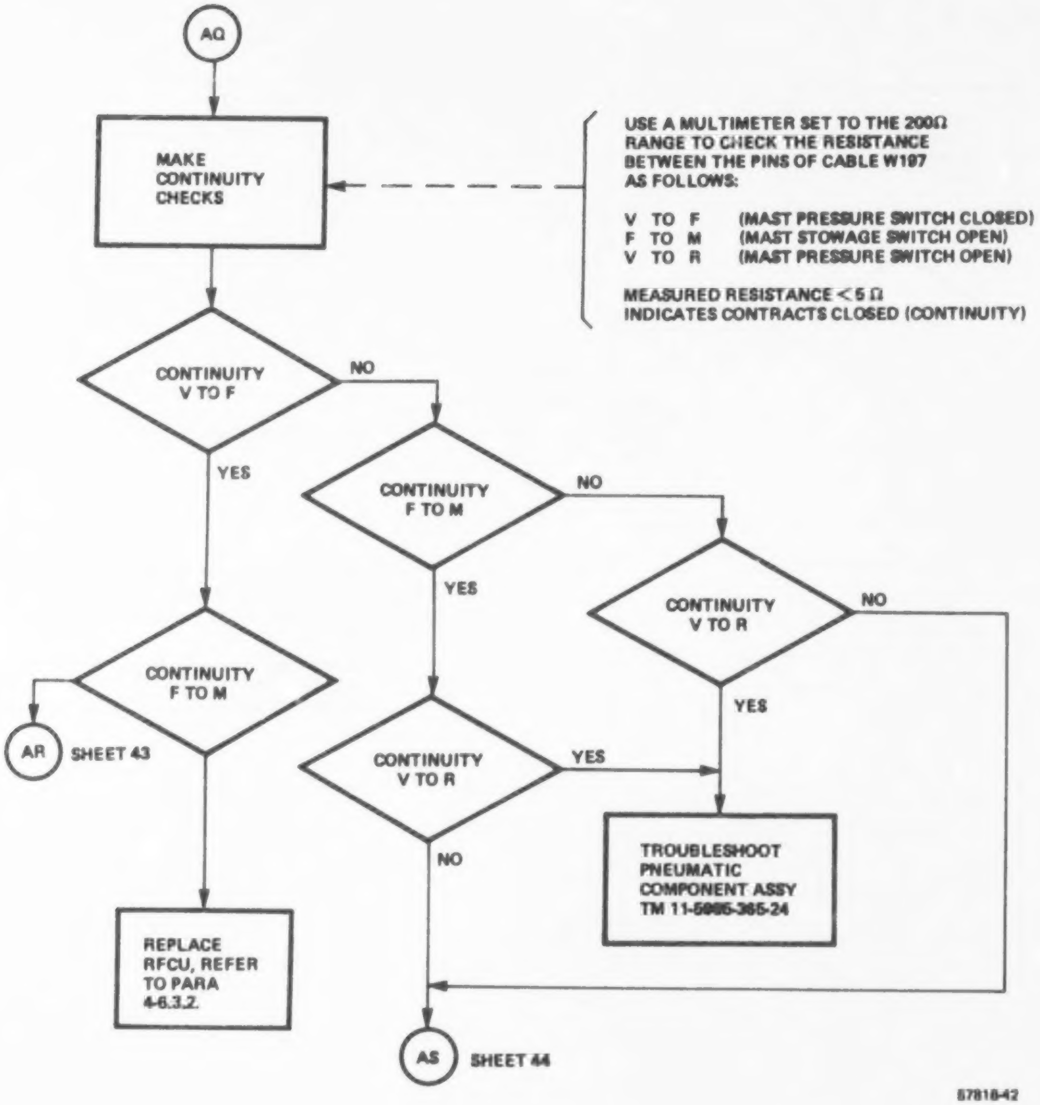

AQ
MAKE CONTINUITY CHECKS
USE A MULTIMETER SET TO THE 200Ω RANGE TO CHECK THE RESISTANCE BETWEEN THE PINS OF CABLE W197 AS FOLLOWS:
V TO F (MAST PRESSURE SWITCH CLOSED)
F TO M (MAST STOWAGE SWITCH OPEN)
V TO R (MAST PRESSURE SWITCH OPEN)
MEASURED RESISTANCE < 5 Ω INDICATES CONTRACTS CLOSED (CONTINUITY)
CONTINUITY V TO F
NO
YES
CONTINUITY F TO M
NO
YES
CONTINUITY V TO R
NO
YES
CONTINUITY F TO M
AR
SHEET 43
CONTINUITY V TO R
YES
NO
TROUBLESHOOT PNEUMATIC COMPONENT ASSY TM 11-5865-365-24
REPLACE RFCU, REFER TO PARA 4-6.3.2.
AS
SHEET 44
57818-42

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 42 of 109)

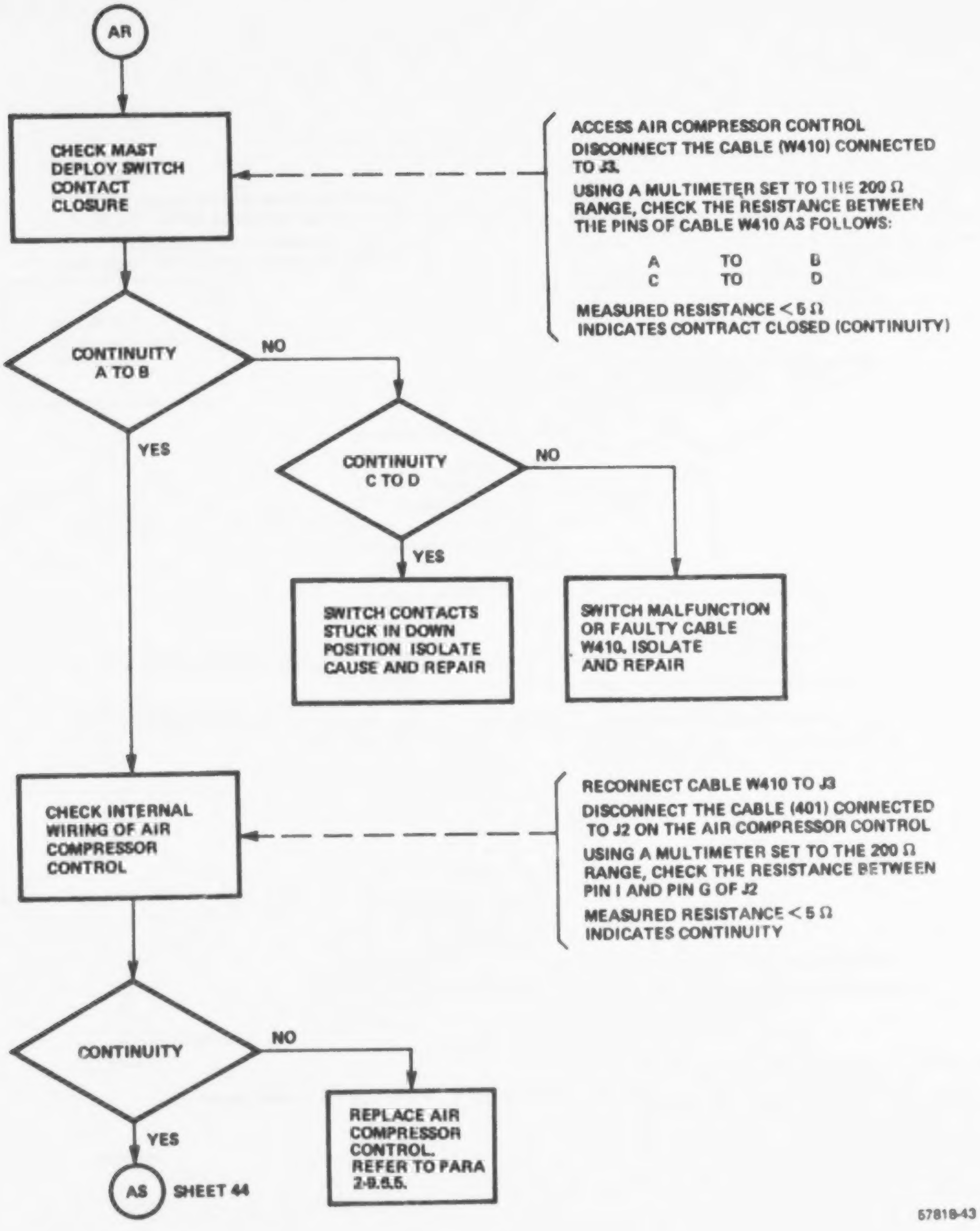

AR
CHECK MAST DEPLOY SWITCH CONTACT CLOSURE
ACCESS AIR COMPRESSOR CONTROL
DISCONNECT THE CABLE (W410) CONNECTED TO J3.
USING A MULTIMETER SET TO THE 200 Ω RANGE, CHECK THE RESISTANCE BETWEEN THE PINS OF CABLE W410 AS FOLLOWS:
A TO B
C TO D
MEASURED RESISTANCE < 5 Ω INDICATES CONTRACT CLOSED (CONTINUITY)
CONTINUITY A TO B
NO
YES
CONTINUITY C TO D
NO
YES
SWITCH CONTACTS STUCK IN DOWN POSITION ISOLATE CAUSE AND REPAIR
SWITCH MALFUNCTION OR FAULTY CABLE W410. ISOLATE AND REPAIR
CHECK INTERNAL WIRING OF AIR COMPRESSOR CONTROL
RECONNECT CABLE W410 TO J3
DISCONNECT THE CABLE (401) CONNECTED TO J2 ON THE AIR COMPRESSOR CONTROL
USING A MULTIMETER SET TO THE 200 Ω RANGE, CHECK THE RESISTANCE BETWEEN PIN I AND PIN G OF J2
MEASURED RESISTANCE < 5 Ω INDICATES CONTINUITY
CONTINUITY
NO
YES
REPLACE AIR COMPRESSOR CONTROL. REFER TO PARA 2-8.6.5.
AS
SHEET 44
57818-43

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 43 of 109)

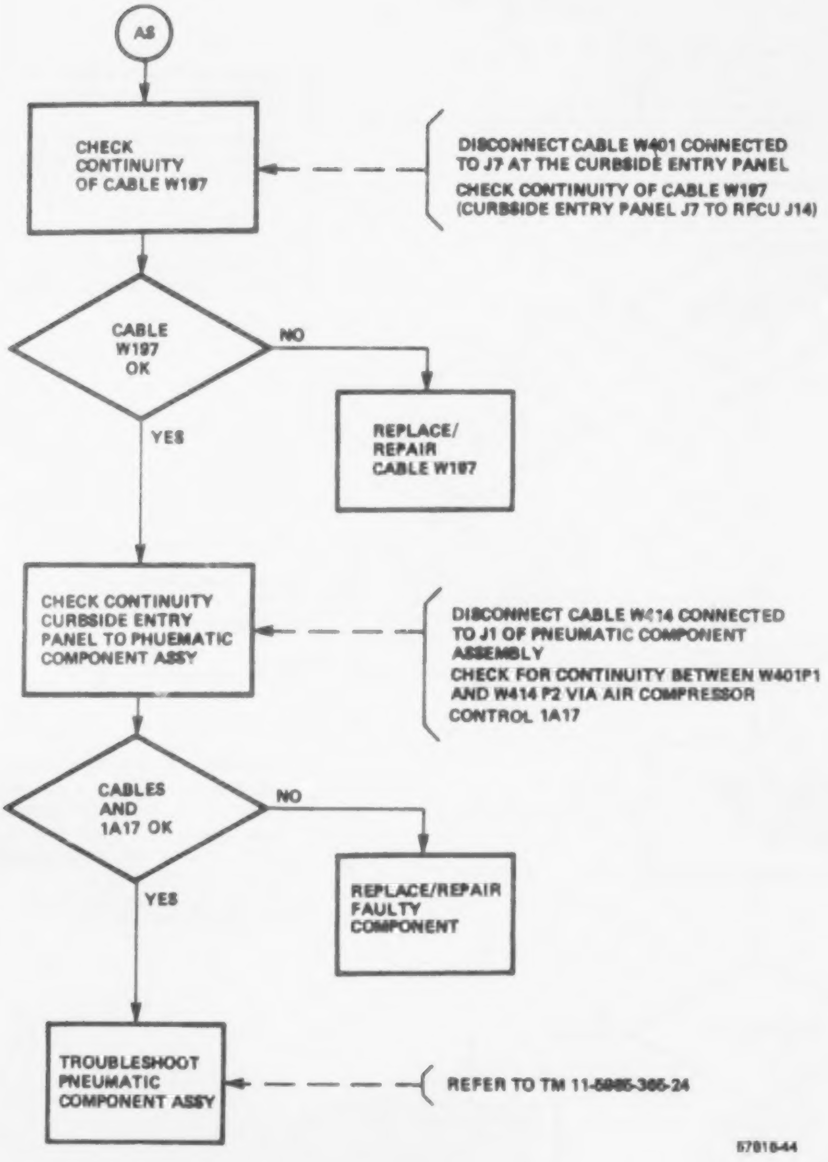

AS
CHECK CONTINUITY OF CABLE W197
DISCONNECT CABLE W401 CONNECTED TO J7 AT THE CURBSIDE ENTRY PANEL
CHECK CONTINUITY OF CABLE W197 (CURBSIDE ENTRY PANEL J7 TO RFCU J14)
CABLE W197 OK
NO
REPLACE/ REPAIR CABLE W197
YES
CHECK CONTINUITY CURBSIDE ENTRY PANEL TO PHUEMATIC COMPONENT ASSY
DISCONNECT CABLE W414 CONNECTED TO J1 OF PNEUMATIC COMPONENT ASSEMBLY
CHECK FOR CONTINUITY BETWEEN W401P1 AND W414 P2 VIA AIR COMPRESSOR CONTROL 1A17
CABLES AND 1A17 OK
NO
REPLACE/REPAIR FAULTY COMPONENT
YES
TROUBLESHOOT PNEUMATIC COMPONENT ASSY
REFER TO TM 11-5985-365-24
57810-44

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 44 of 109)

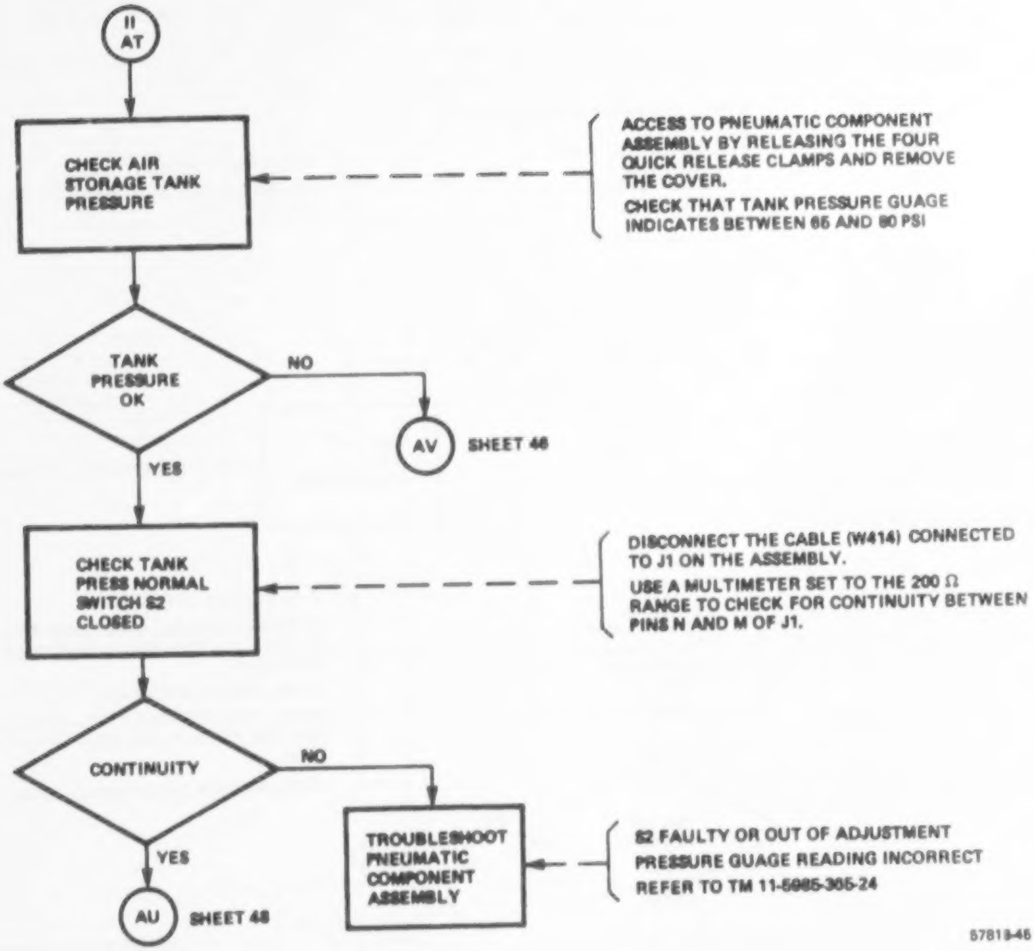

II
AT
CHECK AIR STORAGE TANK PRESSURE
ACCESS TO PNEUMATIC COMPONENT ASSEMBLY BY RELEASING THE FOUR QUICK RELEASE CLAMPS AND REMOVE THE COVER.
CHECK THAT TANK PRESSURE GUAGE INDICATES BETWEEN 65 AND 80 PSI
TANK PRESSURE OK
NO
AV
SHEET 46
YES
CHECK TANK PRESS NORMAL SWITCH S2 CLOSED
DISCONNECT THE CABLE (W414) CONNECTED TO J1 ON THE ASSEMBLY.
USE A MULTIMETER SET TO THE 200 Ω RANGE TO CHECK FOR CONTINUITY BETWEEN PINS N AND M OF J1.
CONTINUITY
NO
YES
AU
SHEET 48
TROUBLESHOOT PNEUMATIC COMPONENT ASSEMBLY
S2 FAULTY OR OUT OF ADJUSTMENT
PRESSURE GUAGE READING INCORRECT
REFER TO TM 11-6665-306-24
57813-45

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 45 of 109)

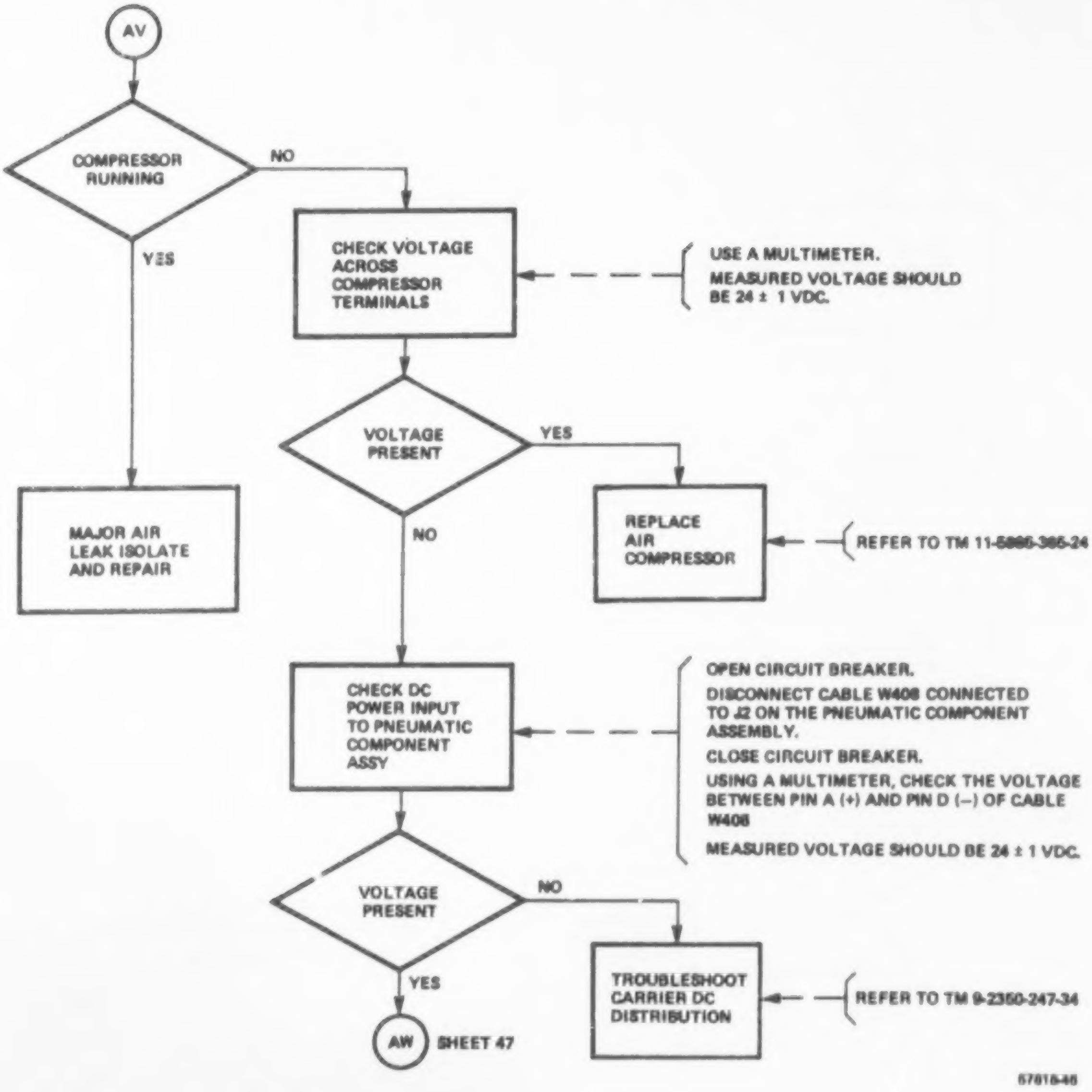
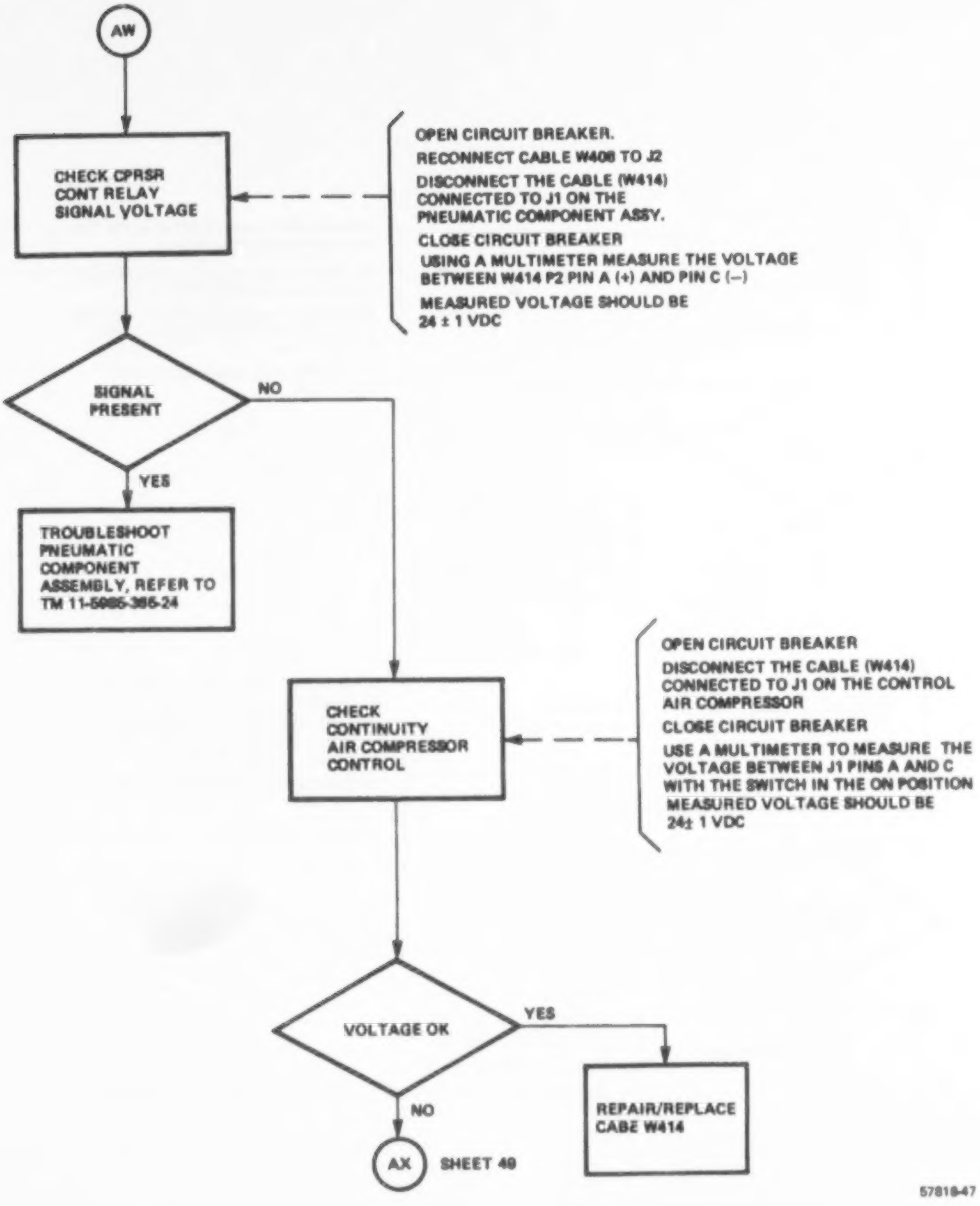

AV
COMPRESSOR RUNNING
NO
YES
CHECK VOLTAGE ACROSS COMPRESSOR TERMINALS
USE A MULTIMETER.
MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC.
MAJOR AIR LEAK ISOLATE AND REPAIR
VOLTAGE PRESENT
YES
NO
REPLACE AIR COMPRESSOR
REFER TO TM 11-5865-365-24
CHECK DC POWER INPUT TO PNEUMATIC COMPONENT ASSY
OPEN CIRCUIT BREAKER.
DISCONNECT CABLE W408 CONNECTED TO J2 ON THE PNEUMATIC COMPONENT ASSEMBLY.
CLOSE CIRCUIT BREAKER.
USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN A (+) AND PIN D (–) OF CABLE W408
MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC.
VOLTAGE PRESENT
NO
YES
TROUBLESHOOT CARRIER DC DISTRIBUTION
REFER TO TM 9-2350-247-34
AW
SHEET 47
57818-46

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 46 of 109)


AW
CHECK CPRSR CONT RELAY SIGNAL VOLTAGE
SIGNAL PRESENT
NO
YES
TROUBLESHOOT PNEUMATIC COMPONENT ASSEMBLY, REFER TO TM 11-5865-366-24
CHECK CONTINUITY AIR COMPRESSOR CONTROL
VOLTAGE OK
YES
NO
REPAIR/REPLACE CABE W414
AX
SHEET 48
57819-47

OPEN CIRCUIT BREAKER.

RECONNECT CABLE W408 TO J2

DISCONNECT THE CABLE (W414) CONNECTED TO J1 ON THE PNEUMATIC COMPONENT ASSY.

CLOSE CIRCUIT BREAKER

USING A MULTIMETER MEASURE THE VOLTAGE BETWEEN W414 P2 PIN A (+) AND PIN C (–)

MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC

OPEN CIRCUIT BREAKER

DISCONNECT THE CABLE (W414) CONNECTED TO J1 ON THE CONTROL AIR COMPRESSOR

CLOSE CIRCUIT BREAKER

USE A MULTIMETER TO MEASURE THE VOLTAGE BETWEEN J1 PINS A AND C WITH THE SWITCH IN THE ON POSITION

MEASURED VOLTAGE SHOULD BE 24± 1 VDC

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 47 of 109)

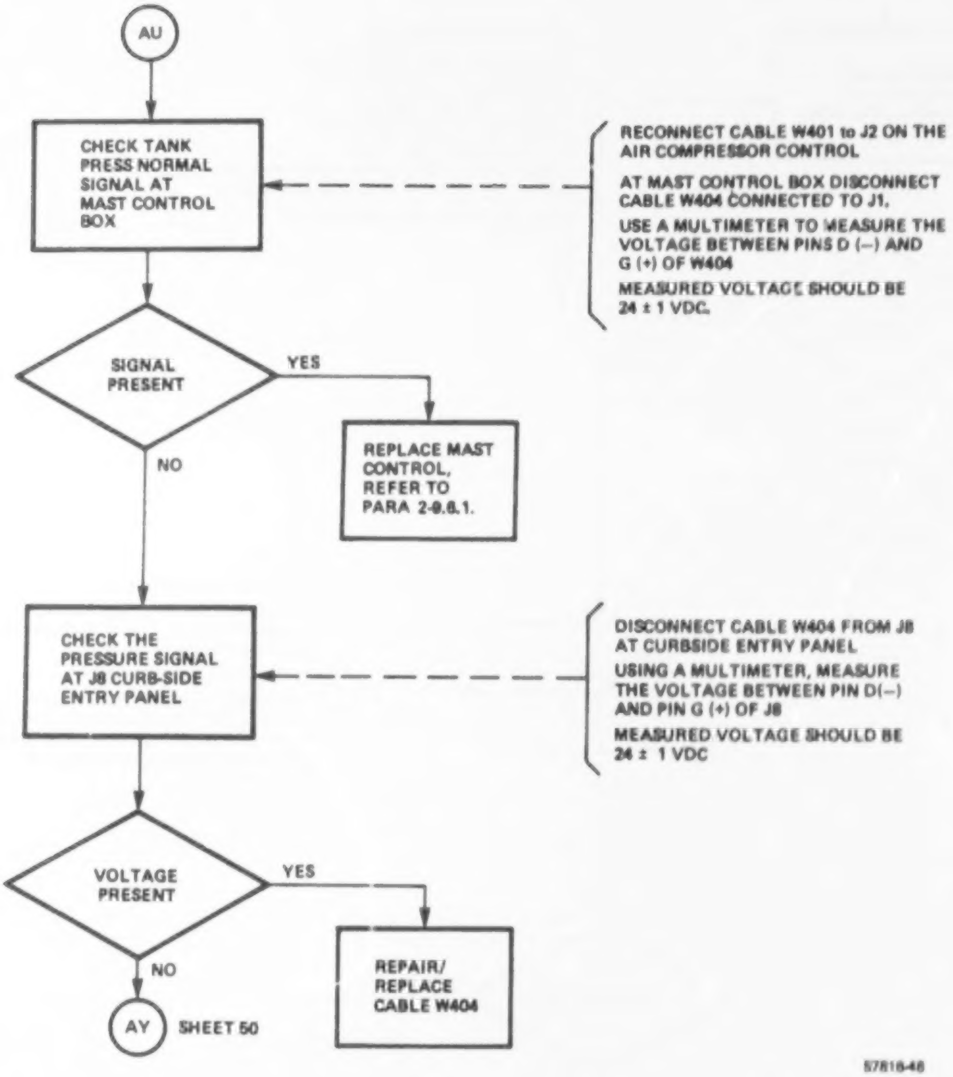

AU
CHECK TANK PRESS NORMAL SIGNAL AT MAST CONTROL BOX
RECONNECT CABLE W401 to J2 ON THE AIR COMPRESSOR CONTROL
AT MAST CONTROL BOX DISCONNECT CABLE W404 CONNECTED TO J1.
USE A MULTIMETER TO MEASURE THE VOLTAGE BETWEEN PINS D (–) AND G (+) OF W404
MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC.
SIGNAL PRESENT
YES
REPLACE MAST CONTROL, REFER TO PARA 2-9.6.1.
NO
CHECK THE PRESSURE SIGNAL AT J8 CURB-SIDE ENTRY PANEL
DISCONNECT CABLE W404 FROM J8 AT CURBSIDE ENTRY PANEL
USING A MULTIMETER, MEASURE THE VOLTAGE BETWEEN PIN D(–) AND PIN G (+) OF J8
MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC
VOLTAGE PRESENT
YES
REPAIR/ REPLACE CABLE W404
NO
AY
SHEET 50
57816-48

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 48 of 109)

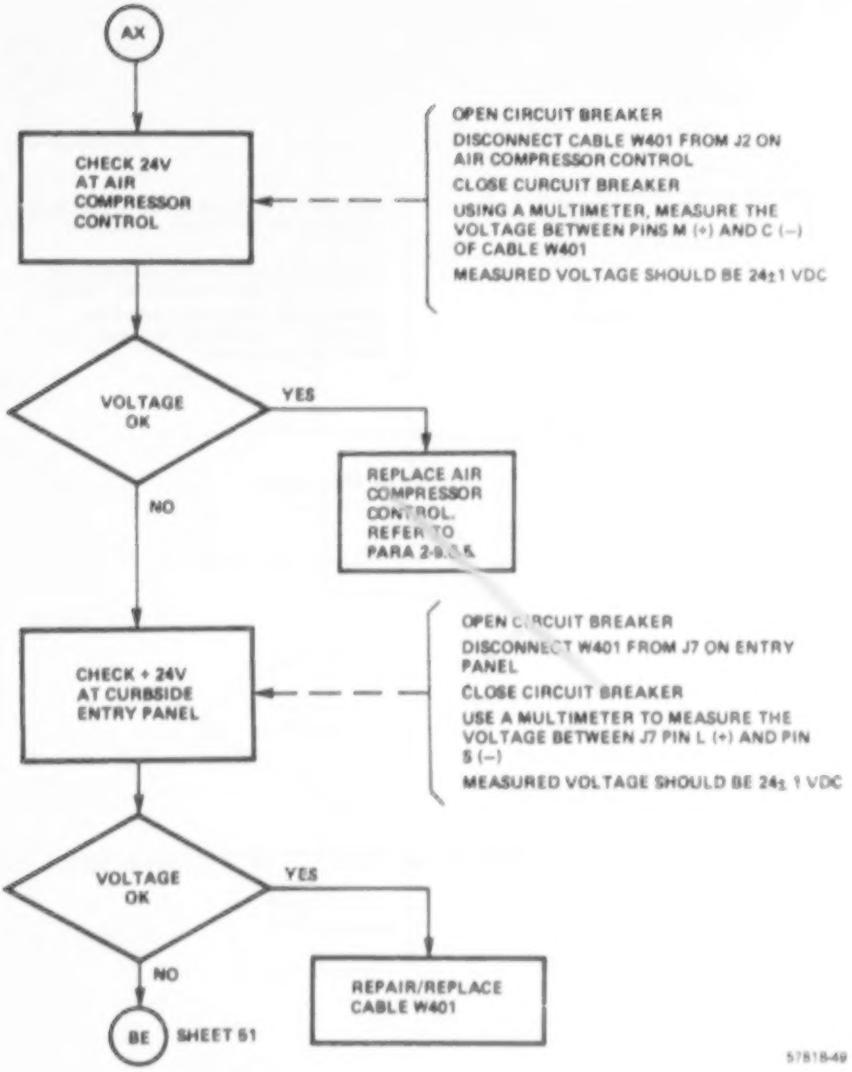
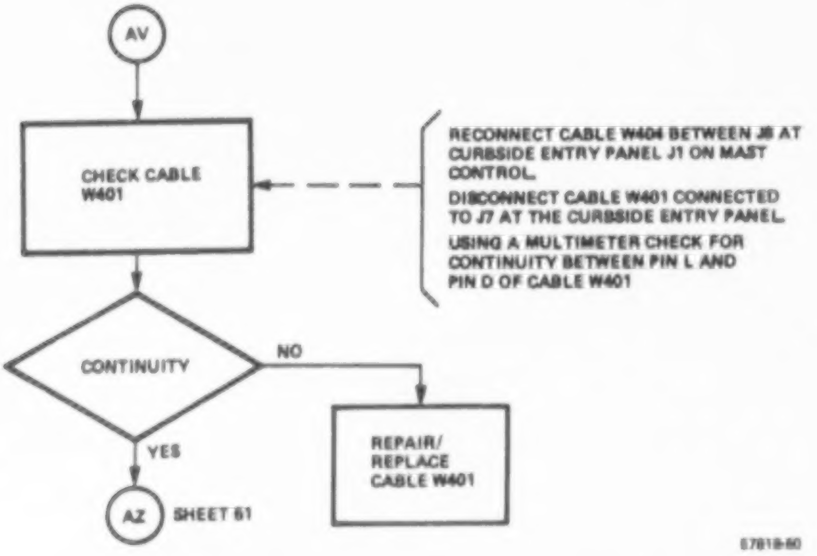

AX
CHECK 24V AT AIR COMPRESSOR CONTROL
OPEN CIRCUIT BREAKER
DISCONNECT CABLE W401 FROM J2 ON AIR COMPRESSOR CONTROL
CLOSE CURCUIT BREAKER
USING A MULTIMETER, MEASURE THE VOLTAGE BETWEEN PINS M (+) AND C (−) OF CABLE W401
MEASURED VOLTAGE SHOULD BE 24±1 VDC
VOLTAGE OK
YES
REPLACE AIR COMPRESSOR CONTROL. REFER TO PARA 2-9.3.5
NO
CHECK + 24V AT CURBSIDE ENTRY PANEL
OPEN CIRCUIT BREAKER
DISCONNECT W401 FROM J7 ON ENTRY PANEL
CLOSE CIRCUIT BREAKER
USE A MULTIMETER TO MEASURE THE VOLTAGE BETWEEN J7 PIN L (+) AND PIN 5 (−)
MEASURED VOLTAGE SHOULD BE 24± 1 VDC
VOLTAGE OK
YES
REPAIR/REPLACE CABLE W401
NO
BE
SHEET 51
57818-49

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 49 of 109)

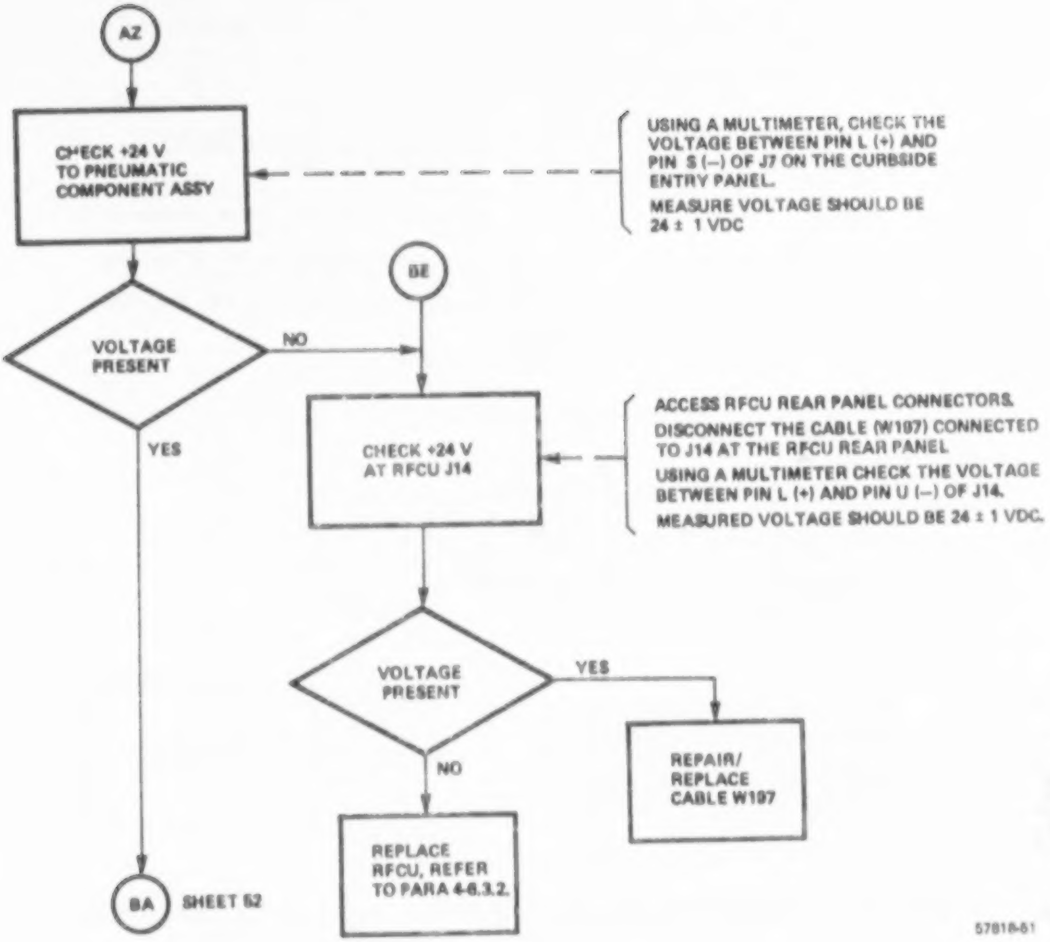


RECONNECT CABLE W404 BETWEEN J8 AT CURBSIDE ENTRY PANEL J1 ON MAST CONTROL.

DISCONNECT CABLE W401 CONNECTED TO J7 AT THE CURBSIDE ENTRY PANEL.

USING A MULTIMETER CHECK FOR CONTINUITY BETWEEN PIN L AND PIN D OF CABLE W401

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 50 of 109)


AZ
CHECK +24 V TO PNEUMATIC COMPONENT ASSY
VOLTAGE PRESENT
NO
YES
BE
CHECK +24 V AT RFCU J14
VOLTAGE PRESENT
YES
NO
REPAIR/ REPLACE CABLE W197
REPLACE RFCU, REFER TO PARA 4-6.3.2.
BA
SHEET 52
57818-51

USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN L (+) AND PIN S (–) OF J7 ON THE CURBSIDE ENTRY PANEL.

MEASURE VOLTAGE SHOULD BE 24 ± 1 VDC

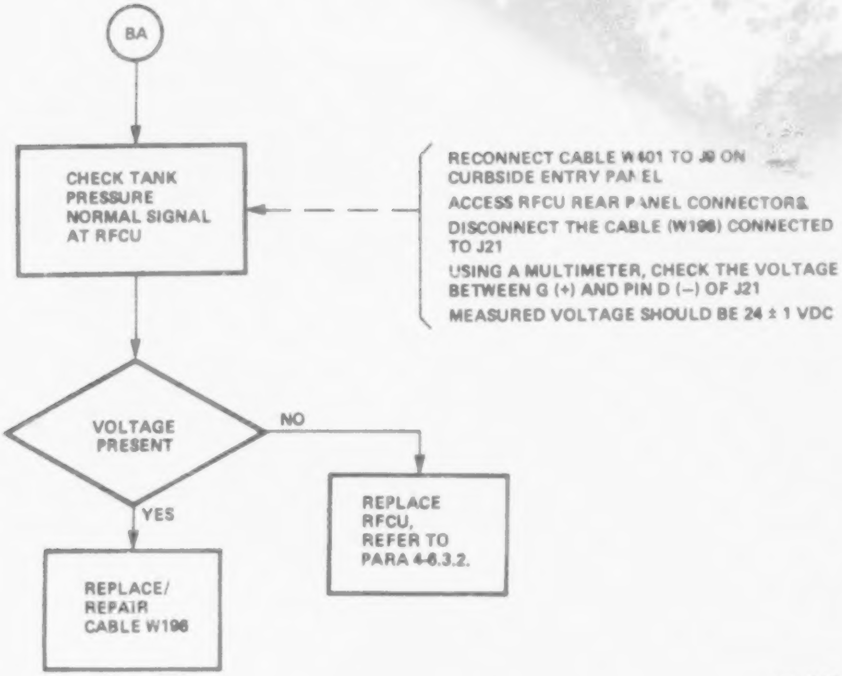
ACCESS RFCU REAR PANEL CONNECTORS.

DISCONNECT THE CABLE (W197) CONNECTED TO J14 AT THE RFCU REAR PANEL.

USING A MULTIMETER CHECK THE VOLTAGE BETWEEN PIN L (+) AND PIN U (–) OF J14.

MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC.

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 51 of 109)


BA
CHECK TANK PRESSURE NORMAL SIGNAL AT RFCU
VOLTAGE PRESENT
NO
YES
REPLACE/ REPAIR CABLE W198
REPLACE RFCU, REFER TO PARA 4-6.3.2.

RECONNECT CABLE W401 TO J9 ON CURBSIDE ENTRY PANEL

ACCESS RFCU REAR PANEL CONNECTORS

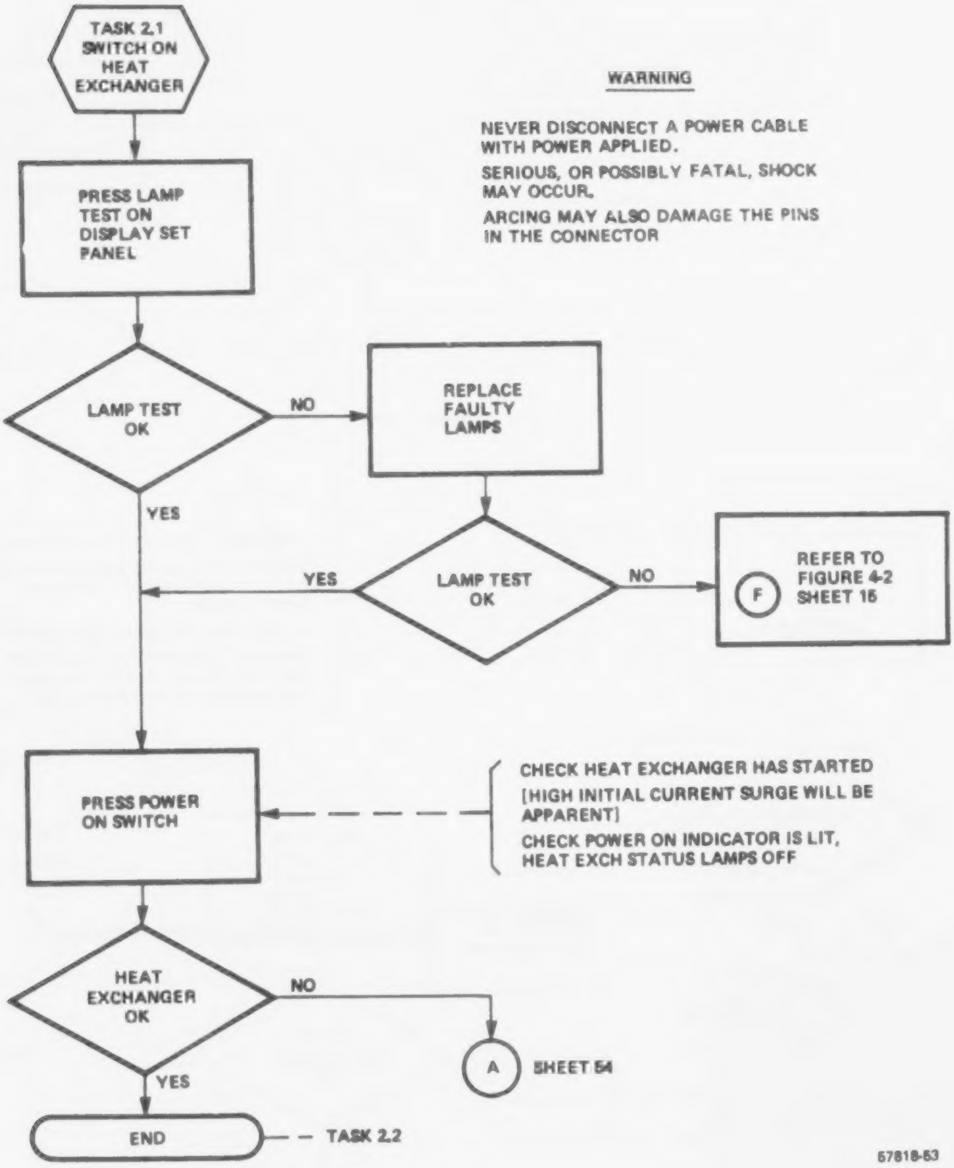
DISCONNECT THE CABLE (W198) CONNECTED TO J21

USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN G (+) AND PIN D (–) OF J21

MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC

57818-52

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 52 of 109)



WARNING

NEVER DISCONNECT A POWER CABLE WITH POWER APPLIED.

SERIOUS, OR POSSIBLY FATAL, SHOCK MAY OCCUR.

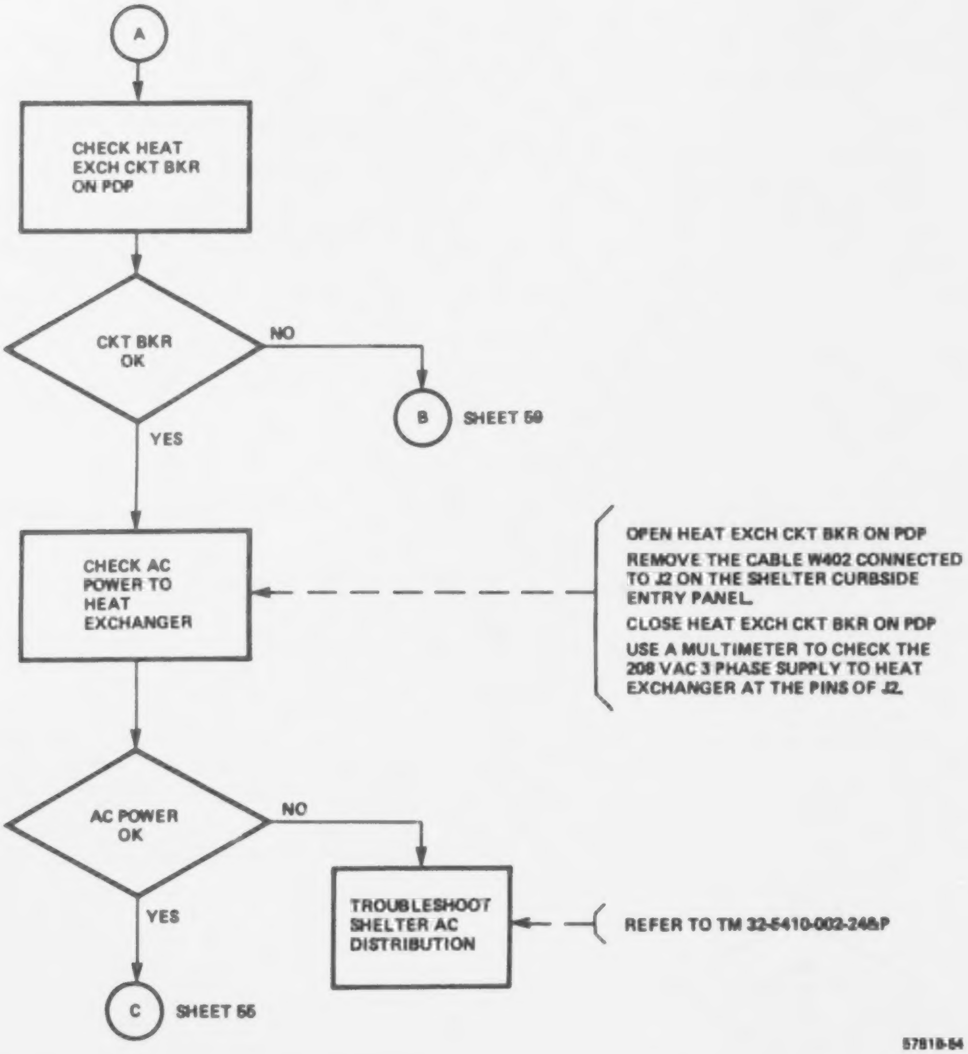
ARCING MAY ALSO DAMAGE THE PINS IN THE CONNECTOR

CHECK HEAT EXCHANGER HAS STARTED

[HIGH INITIAL CURRENT SURGE WILL BE APPARENT]

CHECK POWER ON INDICATOR IS LIT, HEAT EXCH STATUS LAMPS OFF

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 53 of 109)


A
CHECK HEAT EXCH CKT BKR ON PDP
CKT BKR OK
NO
B
SHEET 59
YES
CHECK AC POWER TO HEAT EXCHANGER
AC POWER OK
NO
YES
TROUBLESHOOT SHELTER AC DISTRIBUTION
C
SHEET 55
57818-54

OPEN HEAT EXCH CKT BKR ON PDP

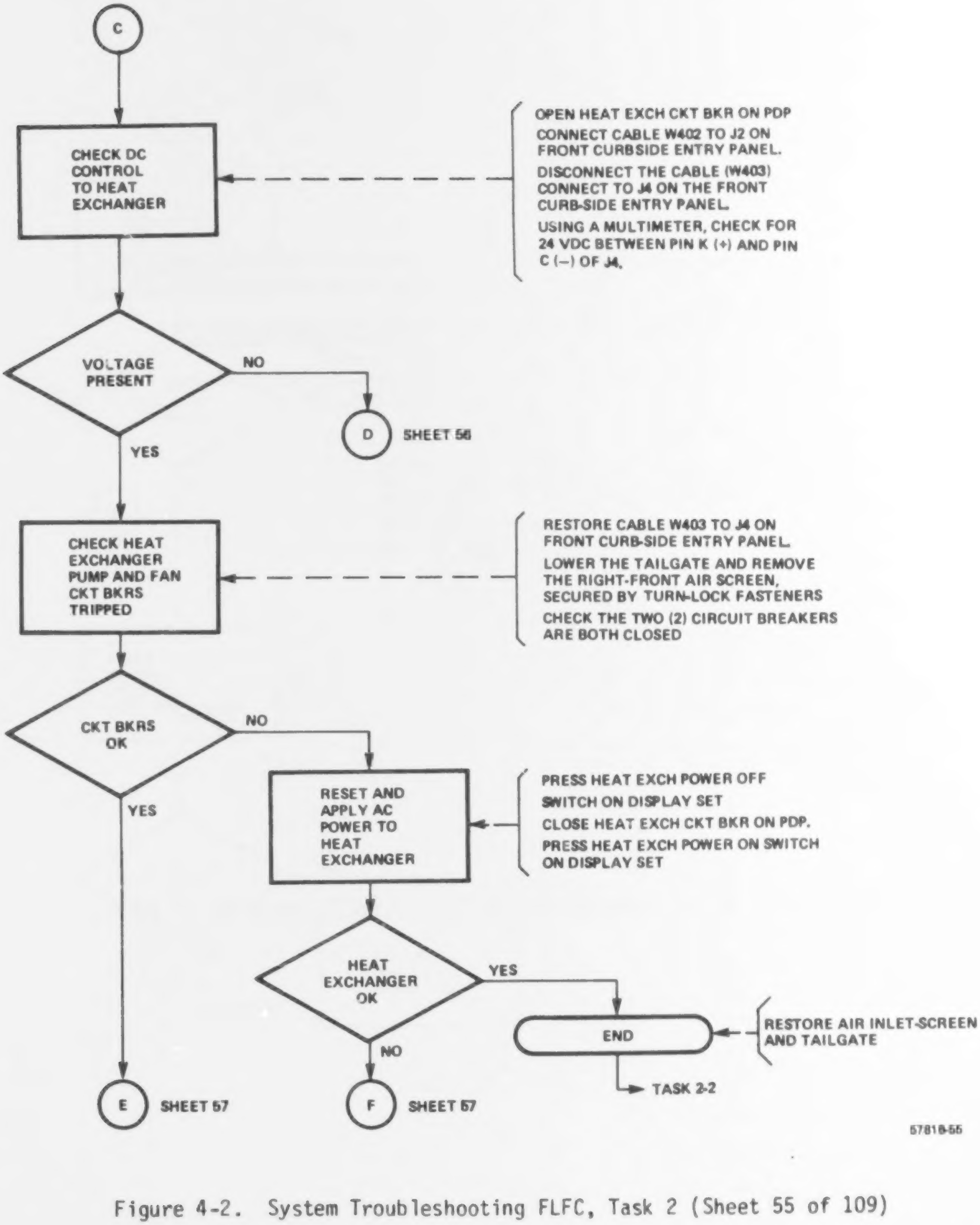
REMOVE THE CABLE W402 CONNECTED TO J2 ON THE SHELTER CURBSIDE ENTRY PANEL.

CLOSE HEAT EXCH CKT BKR ON PDP

USE A MULTIMETER TO CHECK THE 208 VAC 3 PHASE SUPPLY TO HEAT EXCHANGER AT THE PINS OF J2.

REFER TO TM 32-5410-002-24&P

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 54 of 109)


C
CHECK DC CONTROL TO HEAT EXCHANGER
VOLTAGE PRESENT
NO
D
SHEET 56
YES
CHECK HEAT EXCHANGER PUMP AND FAN CKT BKRS TRIPPED
CKT BKRS OK
NO
YES
RESET AND APPLY AC POWER TO HEAT EXCHANGER
HEAT EXCHANGER OK
YES
NO
END
TASK 2-2
E
SHEET 57
F
SHEET 57
57818-55

OPEN HEAT EXCH CKT BKR ON PDP

CONNECT CABLE W402 TO J2 ON FRONT CURBSIDE ENTRY PANEL.

DISCONNECT THE CABLE (W403) CONNECT TO J4 ON THE FRONT CURB-SIDE ENTRY PANEL.

USING A MULTIMETER, CHECK FOR 24 VDC BETWEEN PIN K (+) AND PIN C (–) OF J4.

RESTORE CABLE W403 TO J4 ON FRONT CURB-SIDE ENTRY PANEL.

LOWER THE TAILGATE AND REMOVE THE RIGHT-FRONT AIR SCREEN, SECURED BY TURN-LOCK FASTENERS

CHECK THE TWO (2) CIRCUIT BREAKERS ARE BOTH CLOSED

PRESS HEAT EXCH POWER OFF SWITCH ON DISPLAY SET

CLOSE HEAT EXCH CKT BKR ON PDP.

PRESS HEAT EXCH POWER ON SWITCH ON DISPLAY SET

RESTORE AIR INLET-SCREEN AND TAILGATE

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 55 of 109)

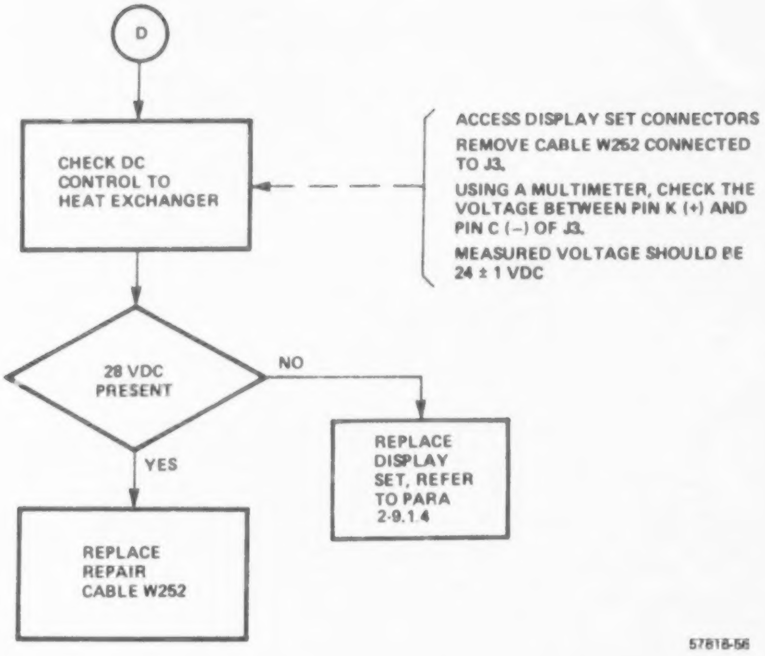

D
CHECK DC CONTROL TO HEAT EXCHANGER
ACCESS DISPLAY SET CONNECTORS
REMOVE CABLE W252 CONNECTED TO J3.
USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN K (+) AND PIN C (–) OF J3.
MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC
28 VDC PRESENT
NO
REPLACE DISPLAY SET, REFER TO PARA 2-9.1.4
YES
REPLACE REPAIR CABLE W252
57818-56

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 56 of 109)

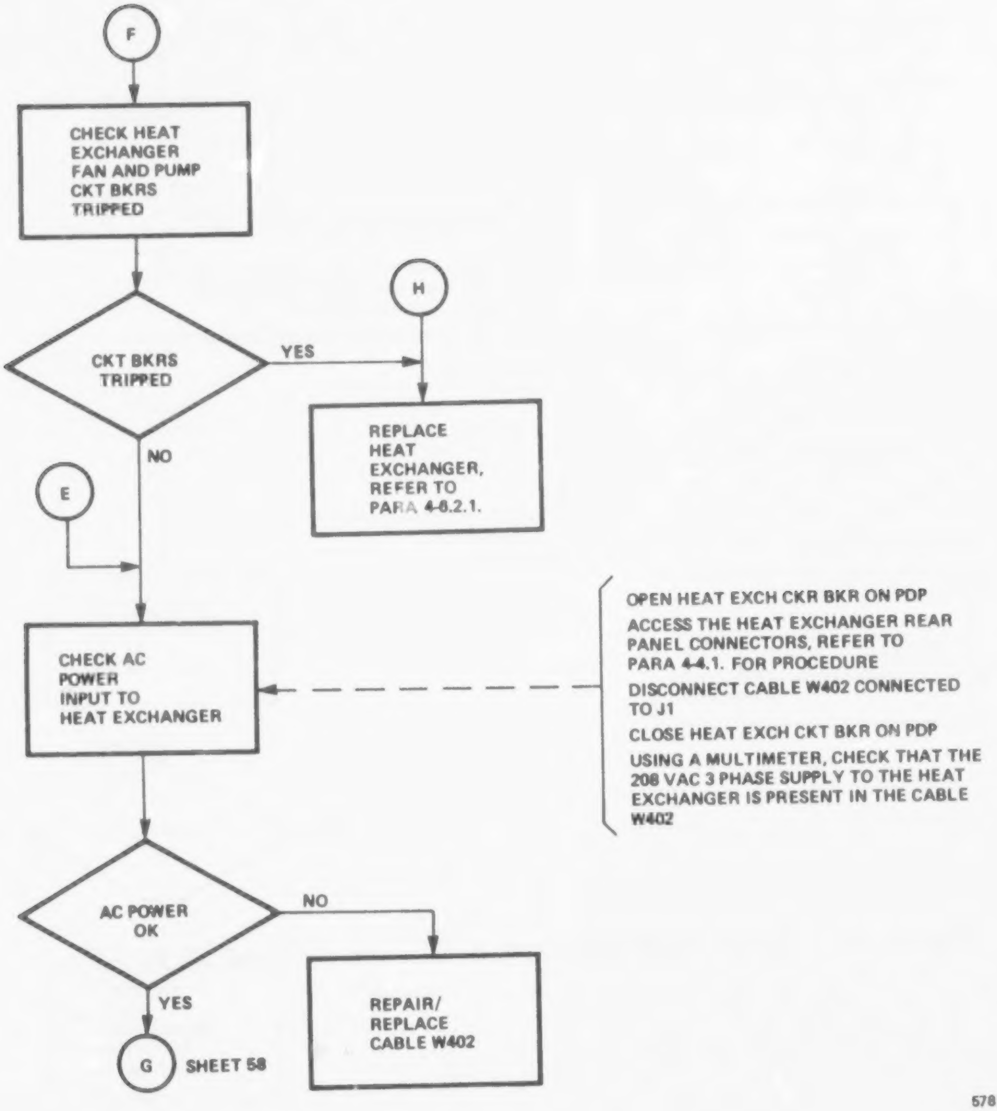

F
CHECK HEAT EXCHANGER FAN AND PUMP CKT BKRS TRIPPED
H
CKT BKRS TRIPPED
YES
NO
REPLACE HEAT EXCHANGER, REFER TO PARA 4-8.2.1.
E
CHECK AC POWER INPUT TO HEAT EXCHANGER
OPEN HEAT EXCH CKR BKR ON PDP
ACCESS THE HEAT EXCHANGER REAR PANEL CONNECTORS, REFER TO PARA 4-4.1. FOR PROCEDURE
DISCONNECT CABLE W402 CONNECTED TO J1
CLOSE HEAT EXCH CKT BKR ON PDP
USING A MULTIMETER, CHECK THAT THE 208 VAC 3 PHASE SUPPLY TO THE HEAT EXCHANGER IS PRESENT IN THE CABLE W402
AC POWER OK
NO
YES
REPAIR/ REPLACE CABLE W402
G
SHEET 58
57818-57

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 57 of 109)

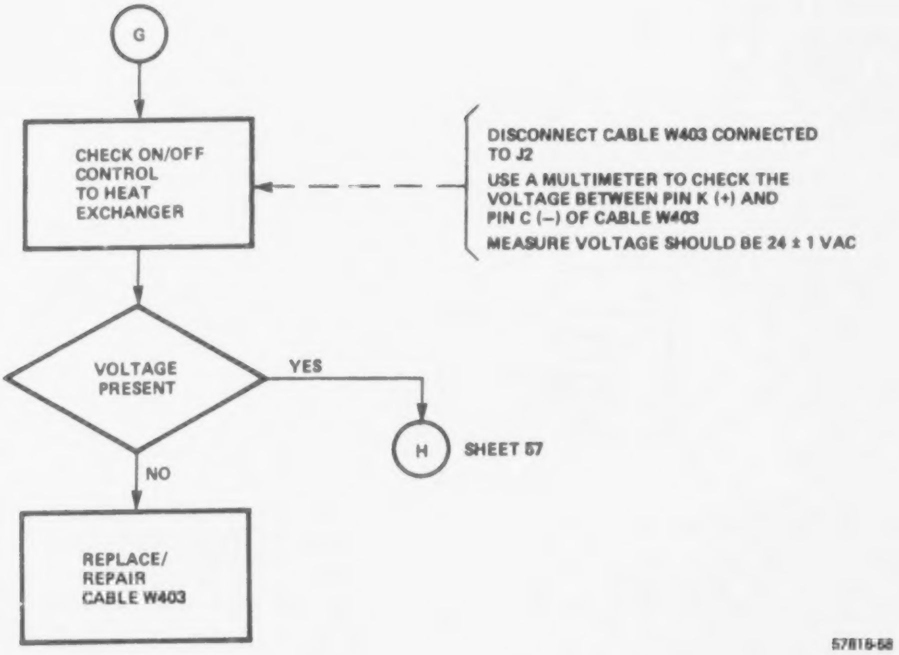

G
CHECK ON/OFF CONTROL TO HEAT EXCHANGER
DISCONNECT CABLE W403 CONNECTED TO J2
USE A MULTIMETER TO CHECK THE VOLTAGE BETWEEN PIN K (+) AND PIN C (–) OF CABLE W403
MEASURE VOLTAGE SHOULD BE 24 ± 1 VAC
VOLTAGE PRESENT
YES
H
SHEET 57
NO
REPLACE/ REPAIR CABLE W403
57818-58

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 58 of 109)

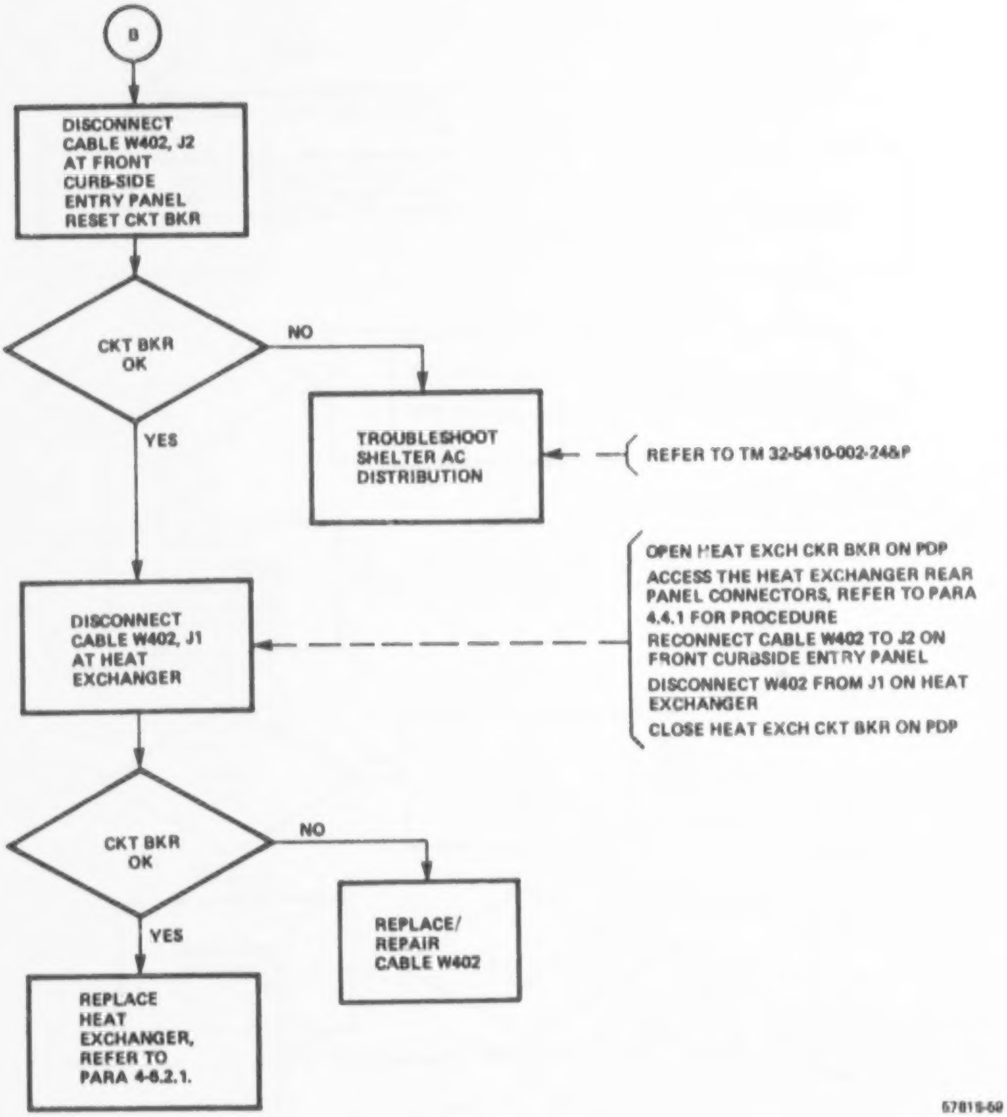
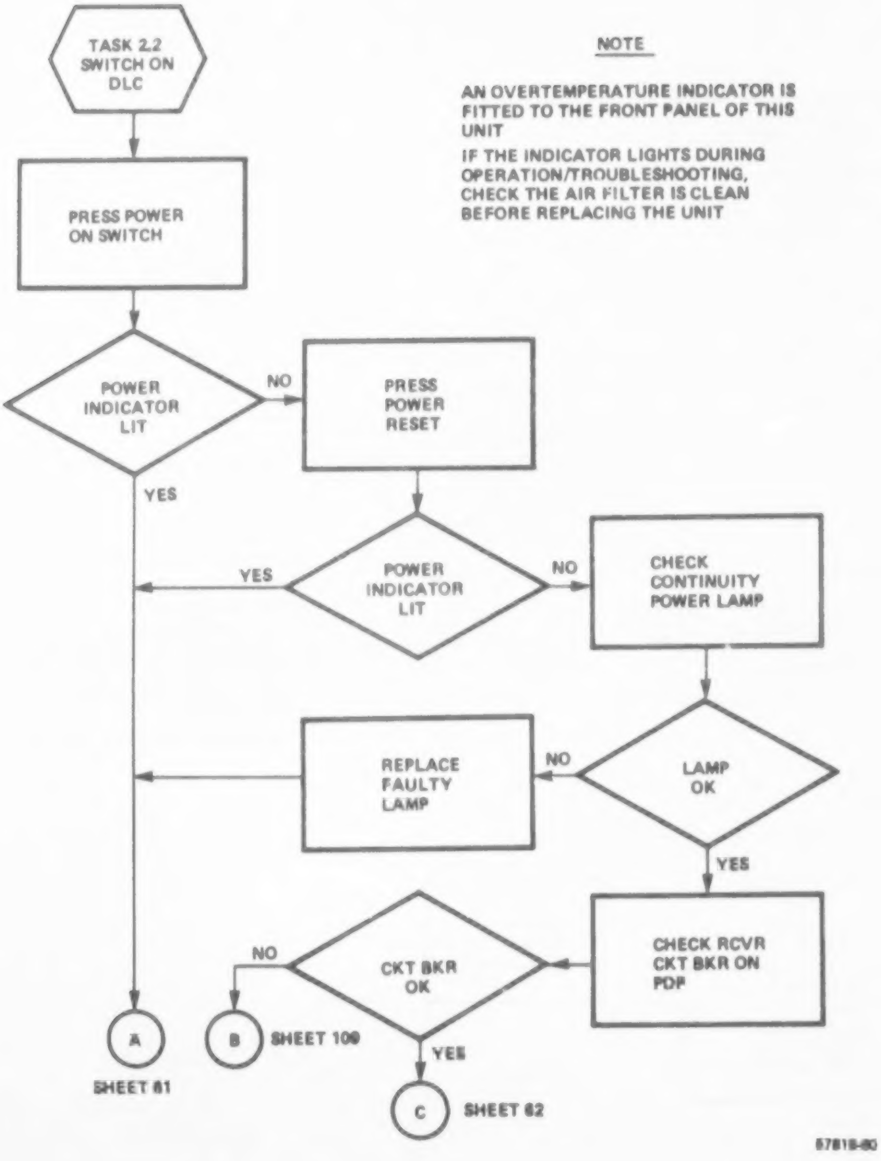

B
DISCONNECT CABLE W402, J2 AT FRONT CURB-SIDE ENTRY PANEL RESET CKT BKR
CKT BKR OK
NO
YES
TROUBLESHOOT SHELTER AC DISTRIBUTION
REFER TO TM 32-5410-002-24&P
OPEN HEAT EXCH CKR BKR ON PDP
ACCESS THE HEAT EXCHANGER REAR PANEL CONNECTORS, REFER TO PARA 4.4.1 FOR PROCEDURE
RECONNECT CABLE W402 TO J2 ON FRONT CURBSIDE ENTRY PANEL
DISCONNECT W402 FROM J1 ON HEAT EXCHANGER
CLOSE HEAT EXCH CKT BKR ON PDP
DISCONNECT CABLE W402, J1 AT HEAT EXCHANGER
CKT BKR OK
NO
YES
REPLACE/ REPAIR CABLE W402
REPLACE HEAT EXCHANGER, REFER TO PARA 4-6.2.1.
57815-59

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 59 of 109)



NOTE

AN OVERTEMPERATURE INDICATOR IS FITTED TO THE FRONT PANEL OF THIS UNIT

IF THE INDICATOR LIGHTS DURING OPERATION/TROUBLESHOOTING, CHECK THE AIR FILTER IS CLEAN BEFORE REPLACING THE UNIT

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 60 of 109)

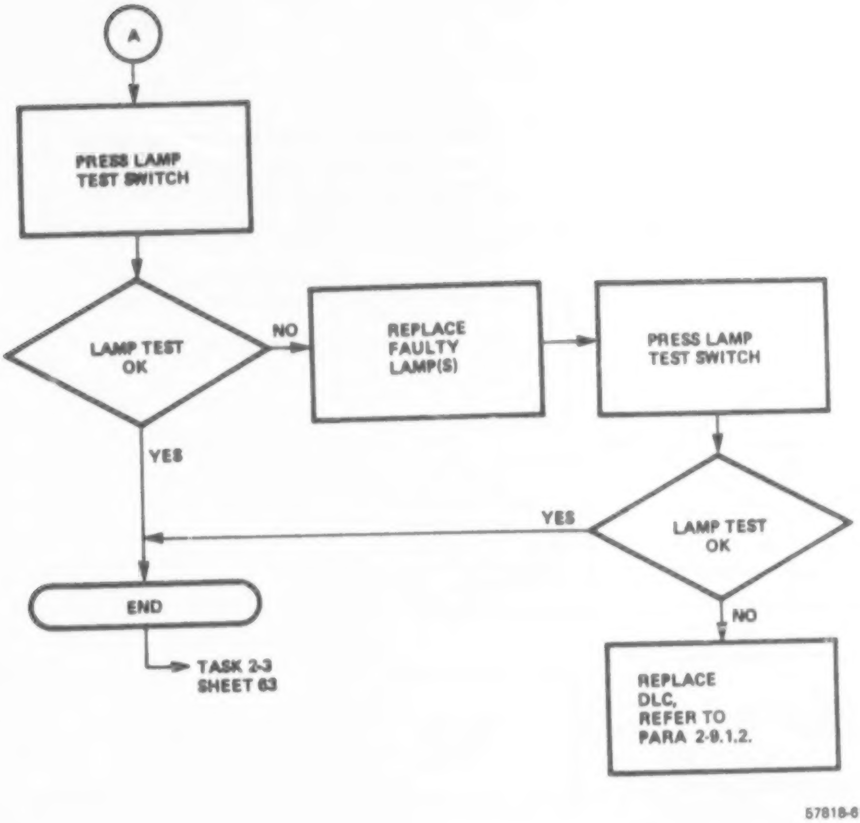
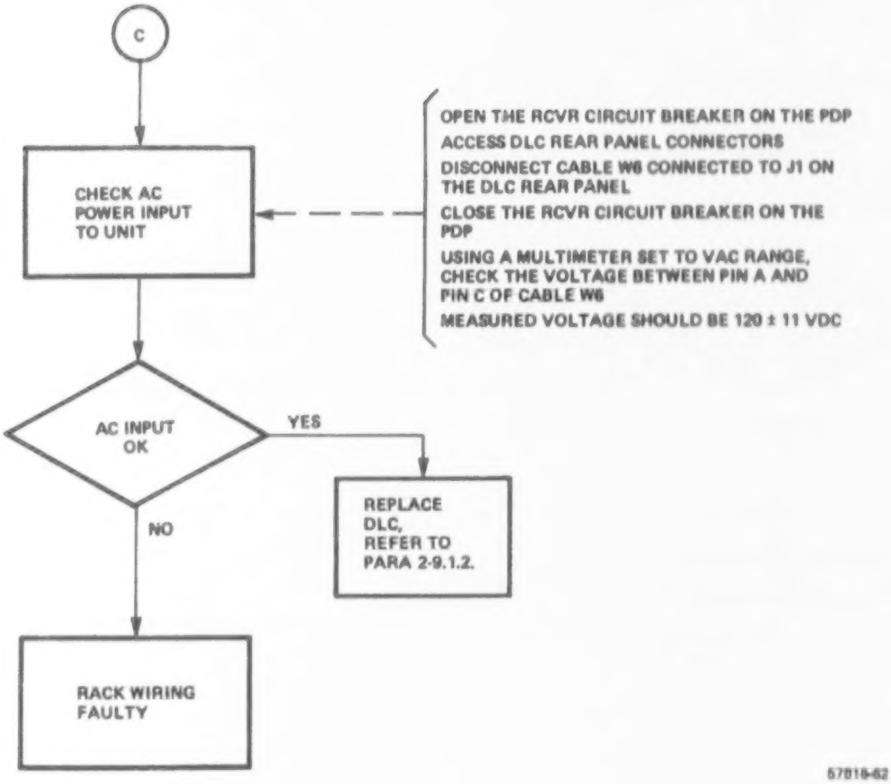


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 61 of 109)


C
CHECK AC POWER INPUT TO UNIT
AC INPUT OK
YES
NO
REPLACE DLC, REFER TO PARA 2-9.1.2.
RACK WIRING FAULTY

OPEN THE RCVR CIRCUIT BREAKER ON THE PDP
ACCESS DLC REAR PANEL CONNECTORS
DISCONNECT CABLE W6 CONNECTED TO J1 ON THE DLC REAR PANEL
CLOSE THE RCVR CIRCUIT BREAKER ON THE PDP
USING A MULTIMETER SET TO VAC RANGE, CHECK THE VOLTAGE BETWEEN PIN A AND PIN C OF CABLE W6
MEASURED VOLTAGE SHOULD BE 120 ± 11 VDC

57816-62

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 62 of 109)

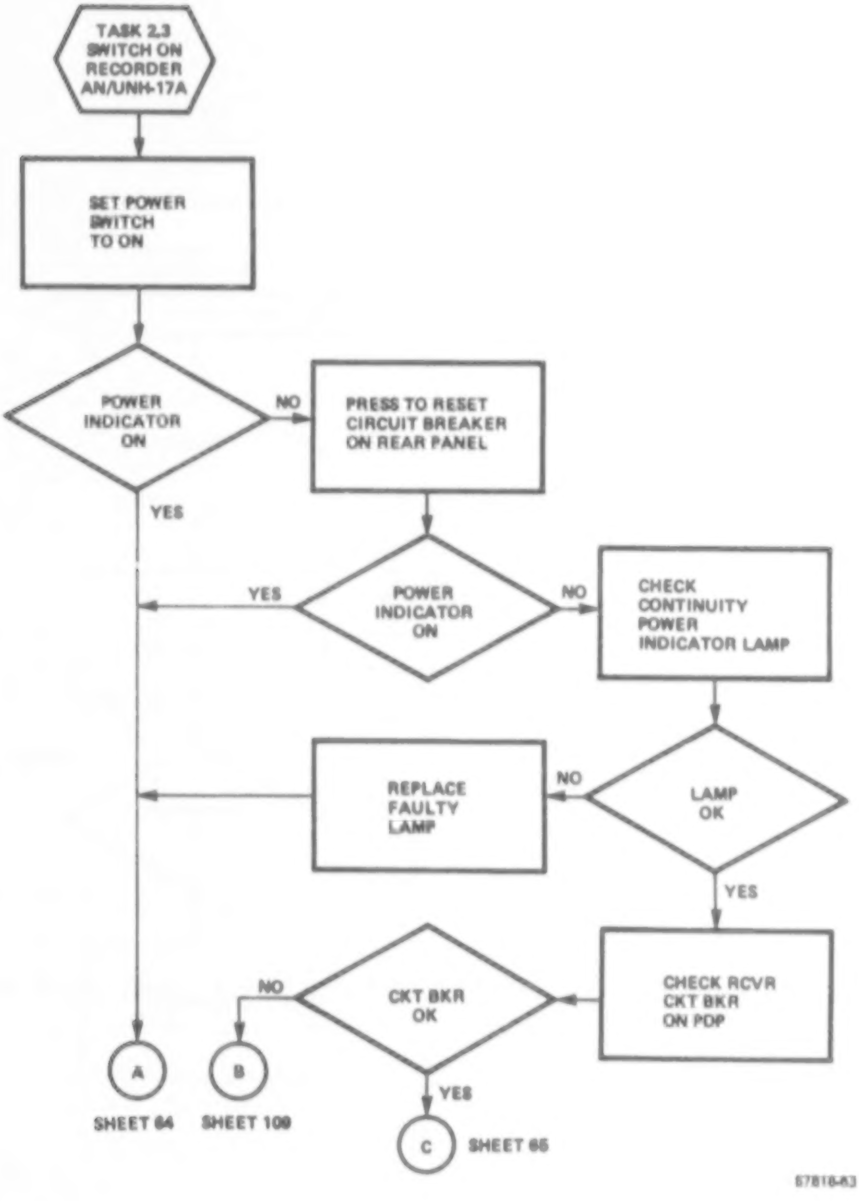


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 63 of 109)

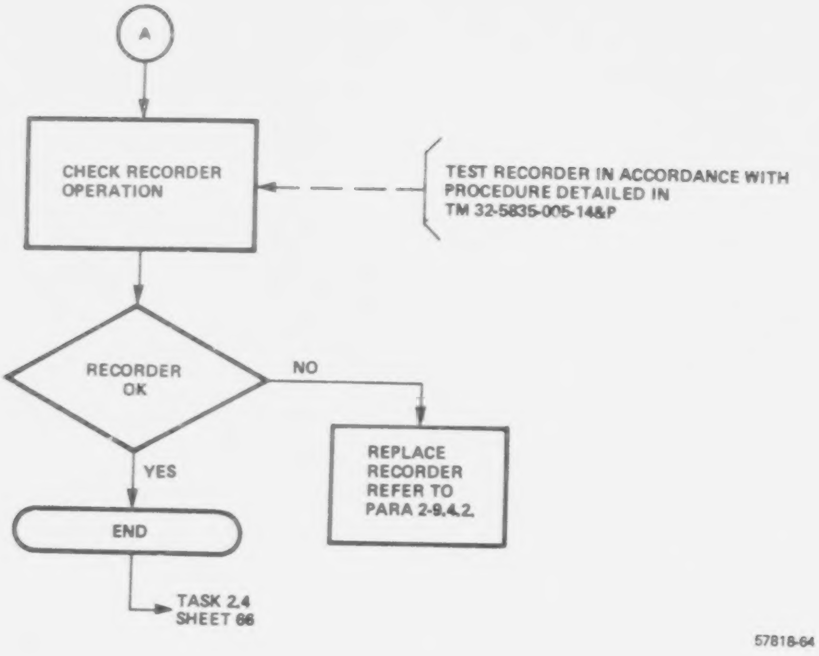

A
CHECK RECORDER OPERATION
TEST RECORDER IN ACCORDANCE WITH PROCEDURE DETAILED IN TM 32-5835-005-14&P
RECORDER OK
NO
YES
REPLACE RECORDER REFER TO PARA 2-9.4.2.
END
TASK 2.4 SHEET 66
57818-64

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 64 of 109)

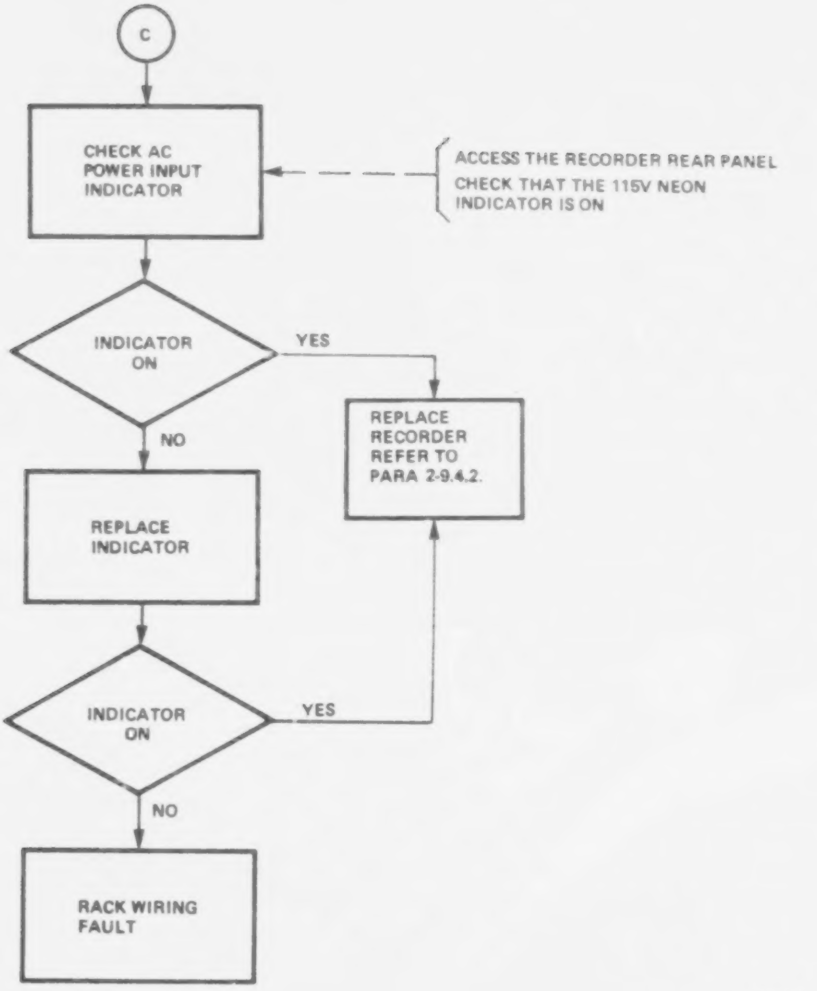
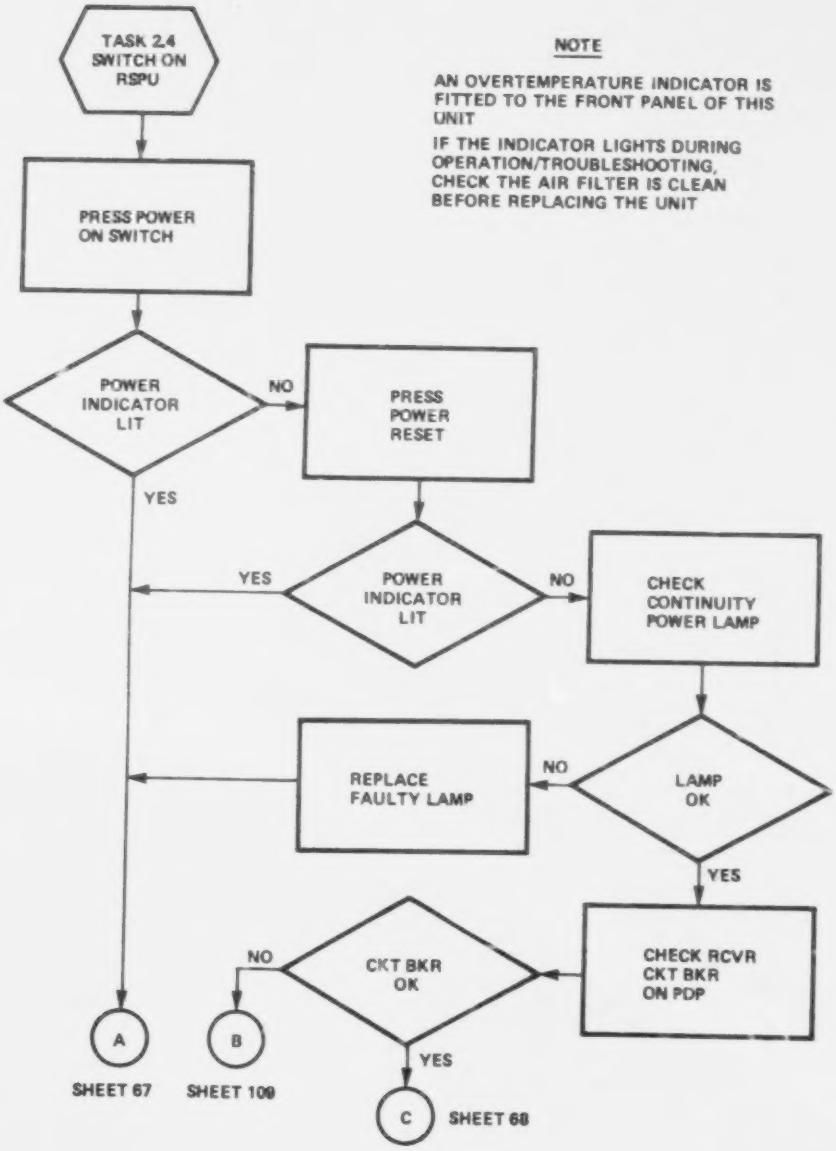

C
CHECK AC POWER INPUT INDICATOR
ACCESS THE RECORDER REAR PANEL
CHECK THAT THE 115V NEON INDICATOR IS ON
INDICATOR ON
YES
NO
REPLACE RECORDER REFER TO PARA 2-9.4.2.
REPLACE INDICATOR
INDICATOR ON
YES
NO
RACK WIRING FAULT
57818-65

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 65 of 109)

best copy available



NOTE

AN OVERTEMPERATURE INDICATOR IS FITTED TO THE FRONT PANEL OF THIS UNIT

IF THE INDICATOR LIGHTS DURING OPERATION/TROUBLESHOOTING, CHECK THE AIR FILTER IS CLEAN BEFORE REPLACING THE UNIT

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 66 of 109)

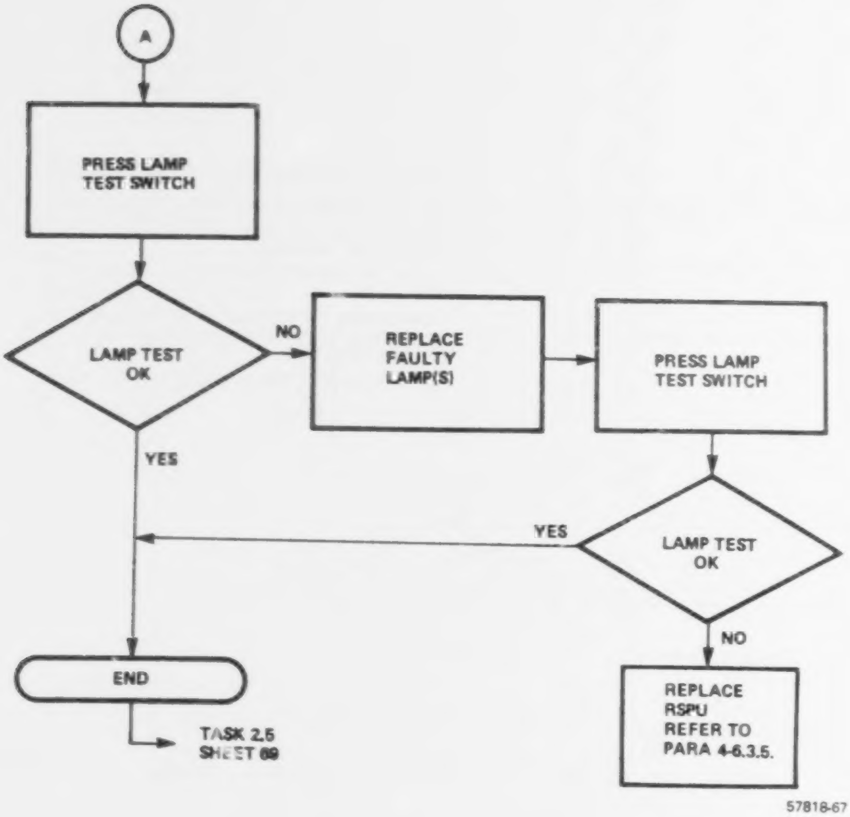
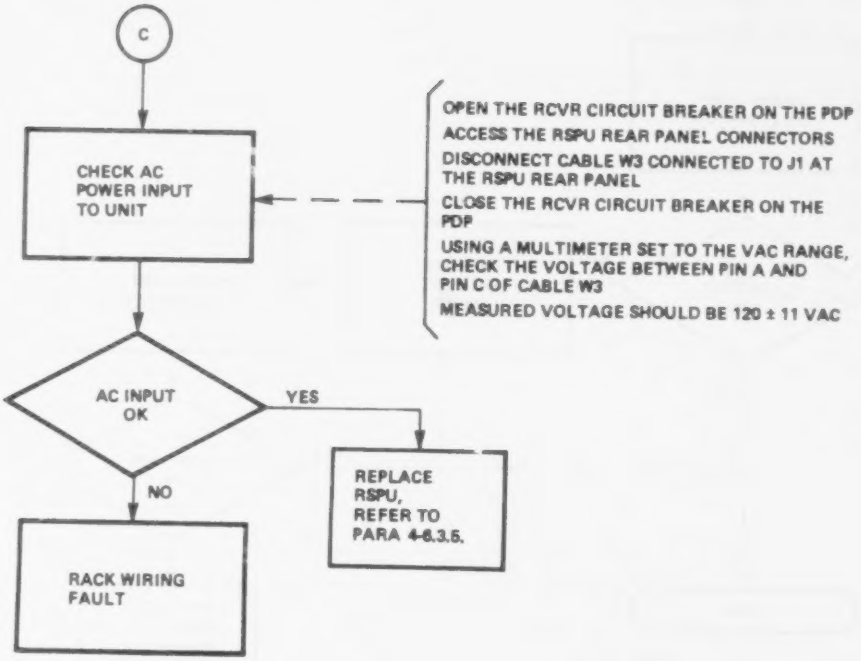


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 67 of 109)



C
CHECK AC POWER INPUT TO UNIT
AC INPUT OK
YES
NO
REPLACE RSPU, REFER TO PARA 4-6.3.5.
RACK WIRING FAULT

OPEN THE RCVR CIRCUIT BREAKER ON THE PDP

ACCESS THE RSPU REAR PANEL CONNECTORS

DISCONNECT CABLE W3 CONNECTED TO J1 AT THE RSPU REAR PANEL

CLOSE THE RCVR CIRCUIT BREAKER ON THE PDP

USING A MULTIMETER SET TO THE VAC RANGE, CHECK THE VOLTAGE BETWEEN PIN A AND PIN C OF CABLE W3

MEASURED VOLTAGE SHOULD BE 120 ± 11 VAC

57818-68

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 68 of 109)

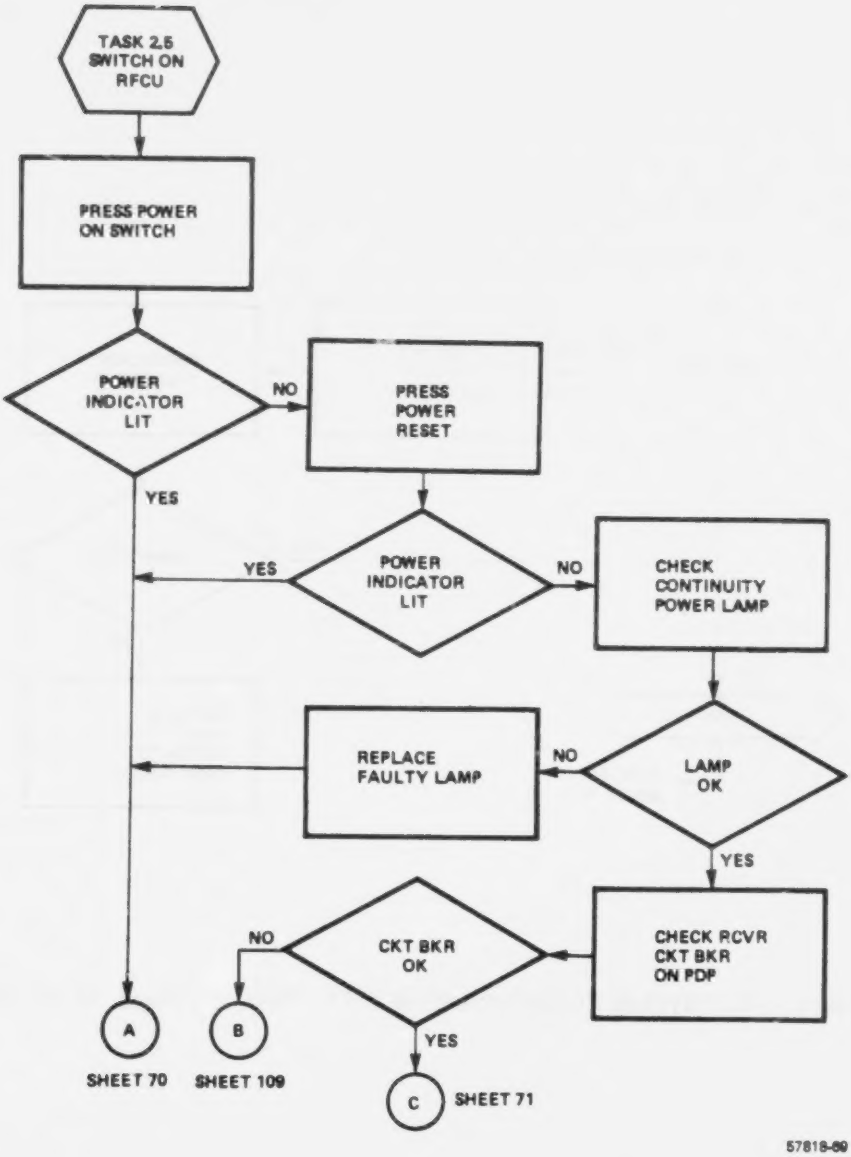


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 69 of 109)

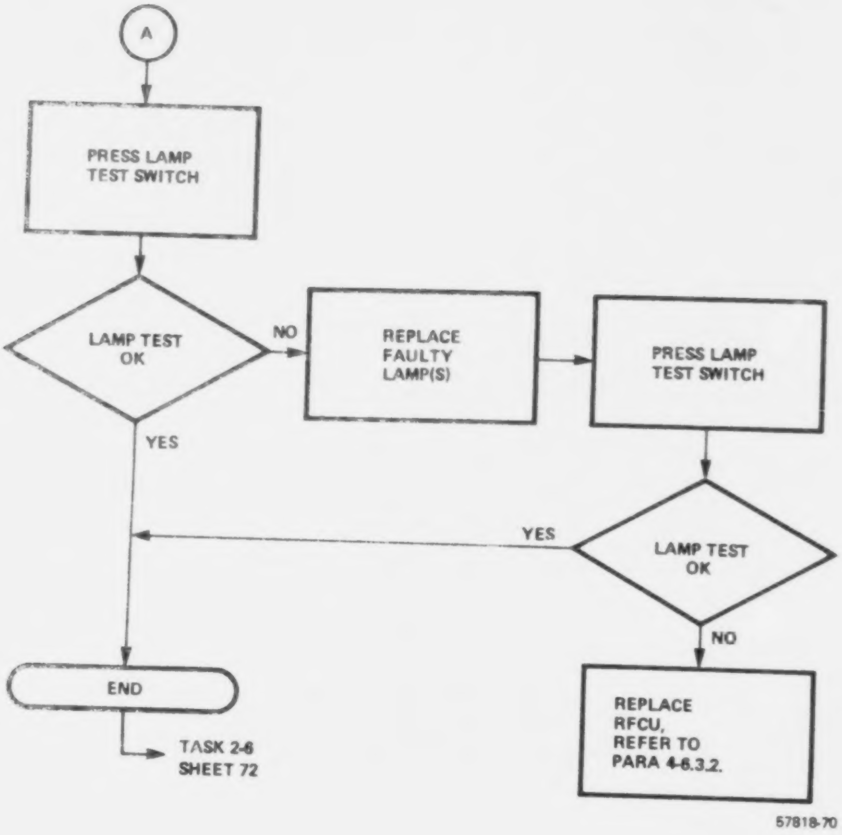


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 70 of 109)

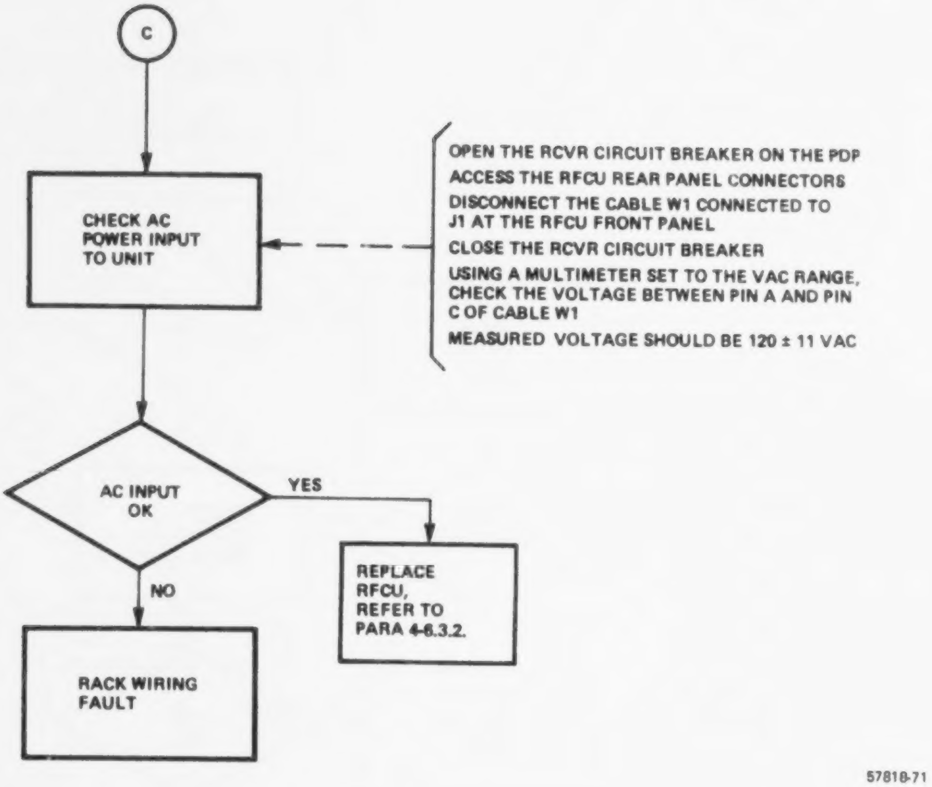

C
CHECK AC POWER INPUT TO UNIT
OPEN THE RCVR CIRCUIT BREAKER ON THE PDP
ACCESS THE RFCU REAR PANEL CONNECTORS
DISCONNECT THE CABLE W1 CONNECTED TO J1 AT THE RFCU FRONT PANEL
CLOSE THE RCVR CIRCUIT BREAKER
USING A MULTIMETER SET TO THE VAC RANGE, CHECK THE VOLTAGE BETWEEN PIN A AND PIN C OF CABLE W1
MEASURED VOLTAGE SHOULD BE 120 ± 11 VAC
AC INPUT OK
YES
REPLACE RFCU, REFER TO PARA 4-6.3.2.
NO
RACK WIRING FAULT
57818-71

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 71 of 109)

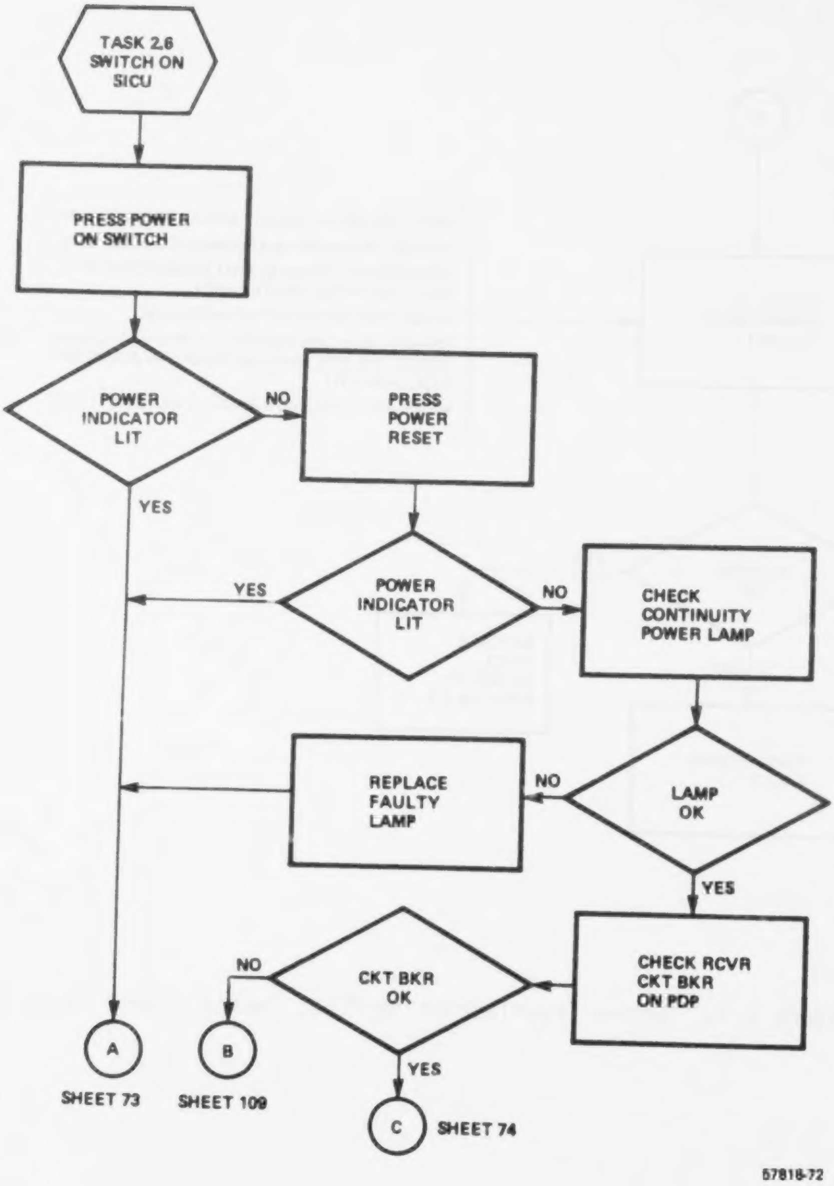


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 72 of 109)

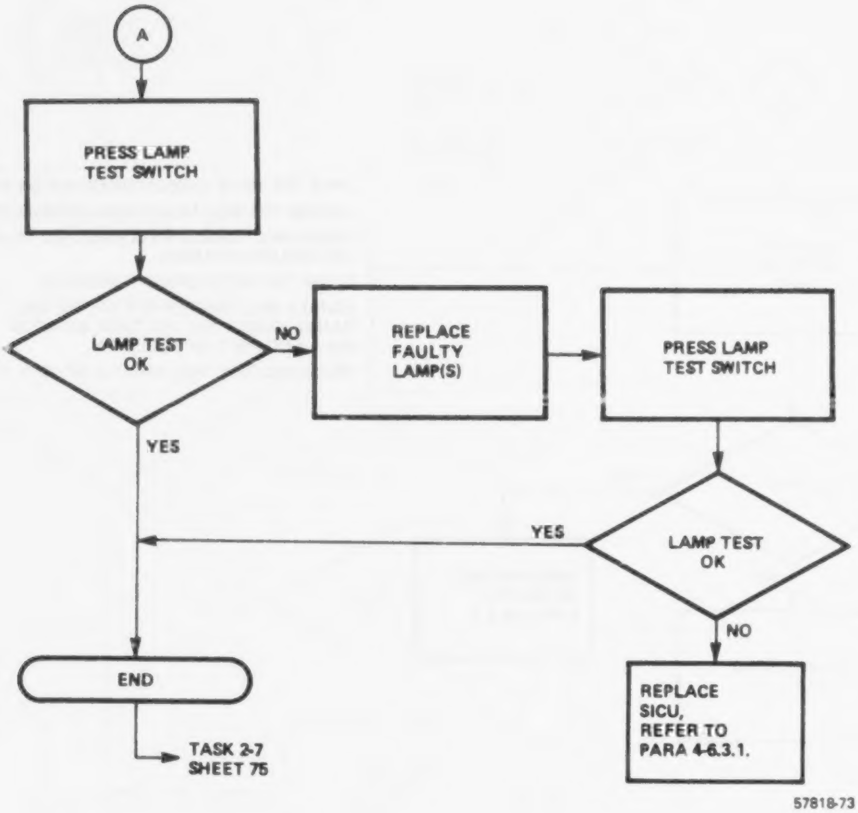
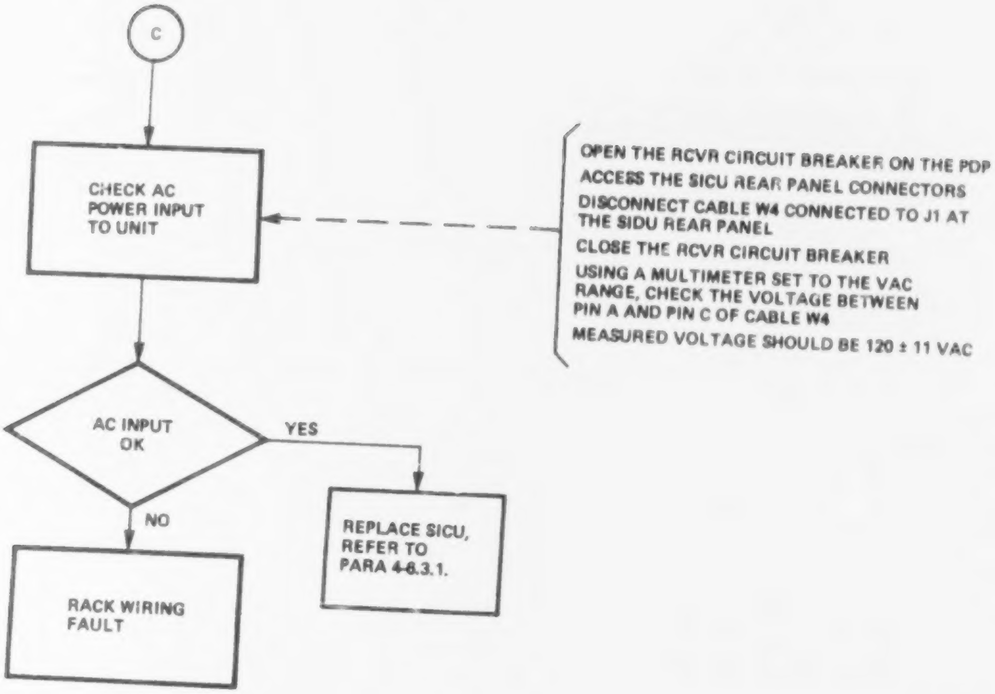
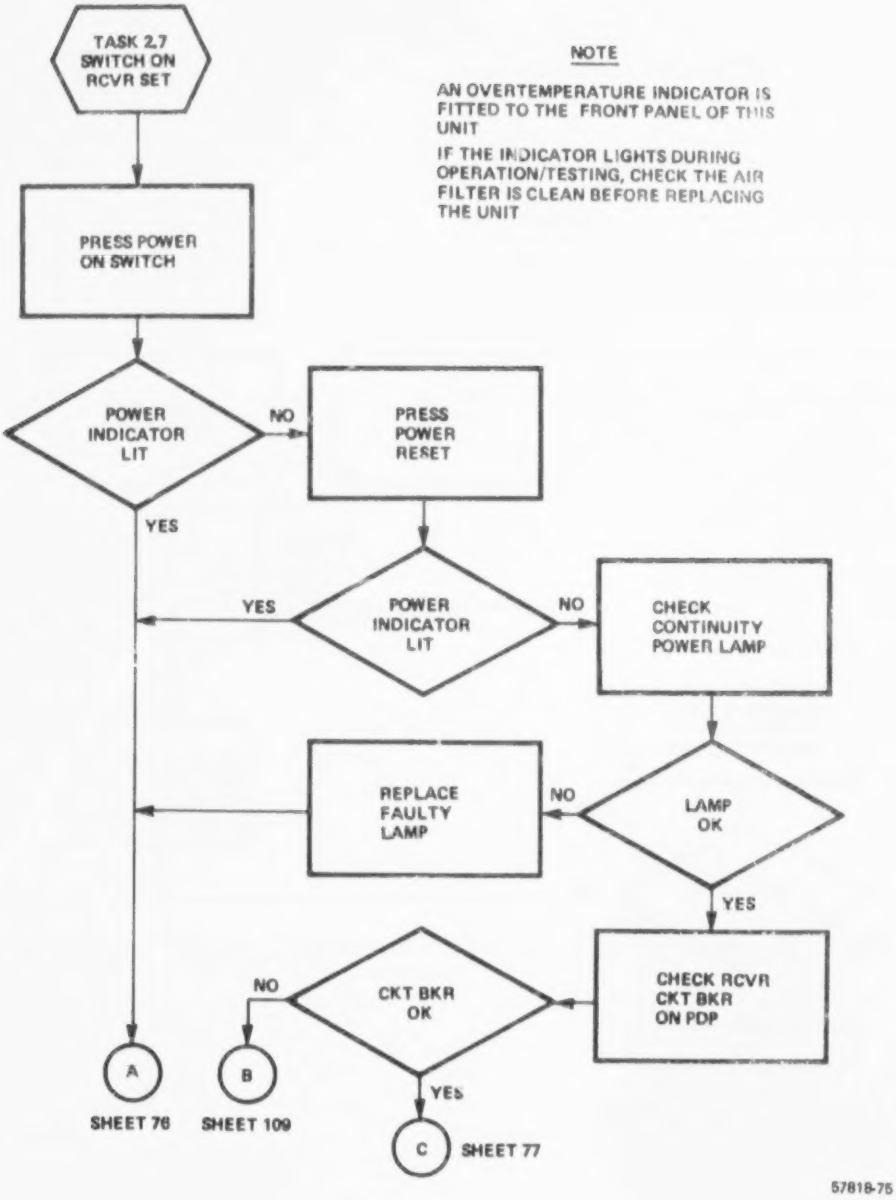


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 73 of 109)


C
CHECK AC POWER INPUT TO UNIT
OPEN THE RCVR CIRCUIT BREAKER ON THE PDP
ACCESS THE SICU REAR PANEL CONNECTORS
DISCONNECT CABLE W4 CONNECTED TO J1 AT THE SIDU REAR PANEL
CLOSE THE RCVR CIRCUIT BREAKER
USING A MULTIMETER SET TO THE VAC RANGE, CHECK THE VOLTAGE BETWEEN PIN A AND PIN C OF CABLE W4
MEASURED VOLTAGE SHOULD BE 120 ± 11 VAC
AC INPUT OK
YES
NO
REPLACE SICU, REFER TO PARA 4-6.3.1.
RACK WIRING FAULT

57818-74

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 74 of 109)



NOTE

AN OVERTEMPERATURE INDICATOR IS FITTED TO THE FRONT PANEL OF THIS UNIT

IF THE INDICATOR LIGHTS DURING OPERATION/TESTING, CHECK THE AIR FILTER IS CLEAN BEFORE REPLACING THE UNIT

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 75 of 109)

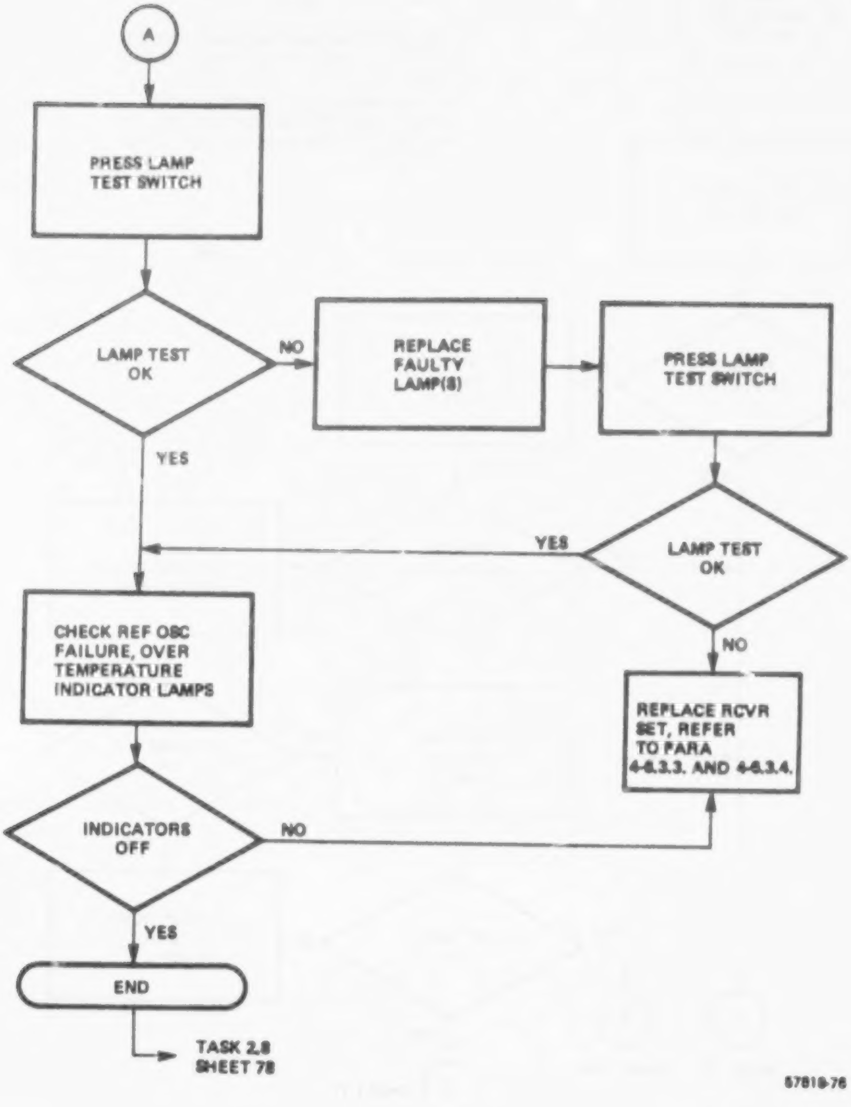
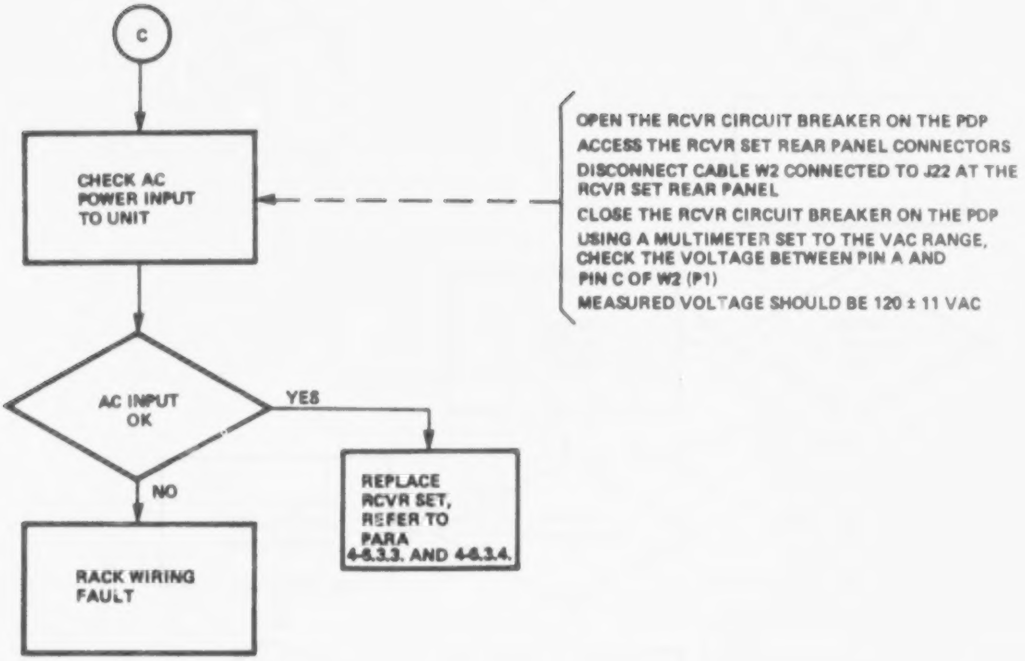


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 76 of 109)


C
CHECK AC POWER INPUT TO UNIT
OPEN THE RCVR CIRCUIT BREAKER ON THE PDP
ACCESS THE RCVR SET REAR PANEL CONNECTORS
DISCONNECT CABLE W2 CONNECTED TO J22 AT THE RCVR SET REAR PANEL
CLOSE THE RCVR CIRCUIT BREAKER ON THE PDP
USING A MULTIMETER SET TO THE VAC RANGE, CHECK THE VOLTAGE BETWEEN PIN A AND PIN C OF W2 (P1)
MEASURED VOLTAGE SHOULD BE 120 ± 11 VAC
AC INPUT OK
YES
NO
REPLACE RCVR SET, REFER TO PARA 4-6.3.3. AND 4-6.3.4.
RACK WIRING FAULT

57818-77

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 77 of 109)

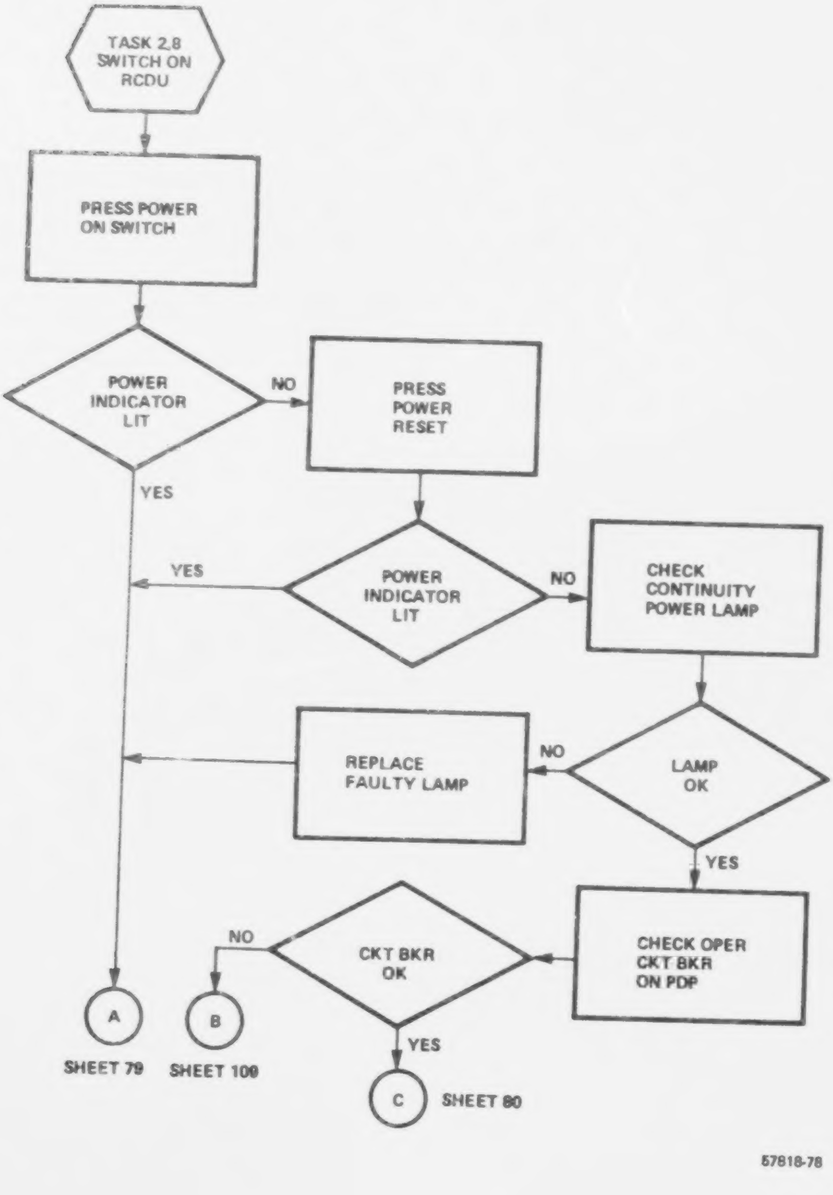


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 78 of 109)

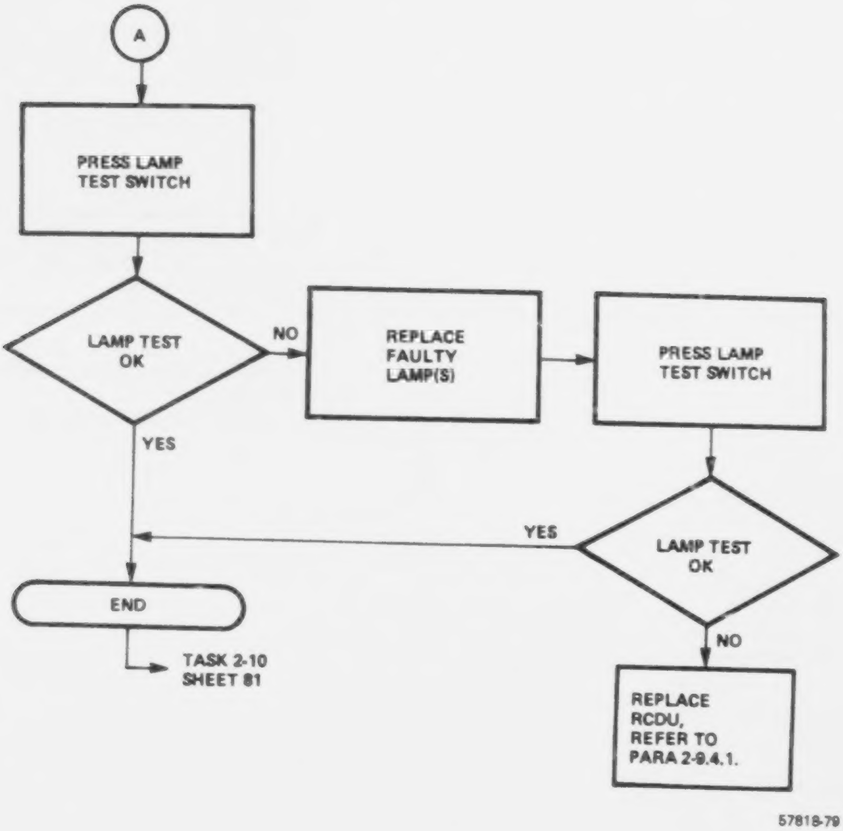
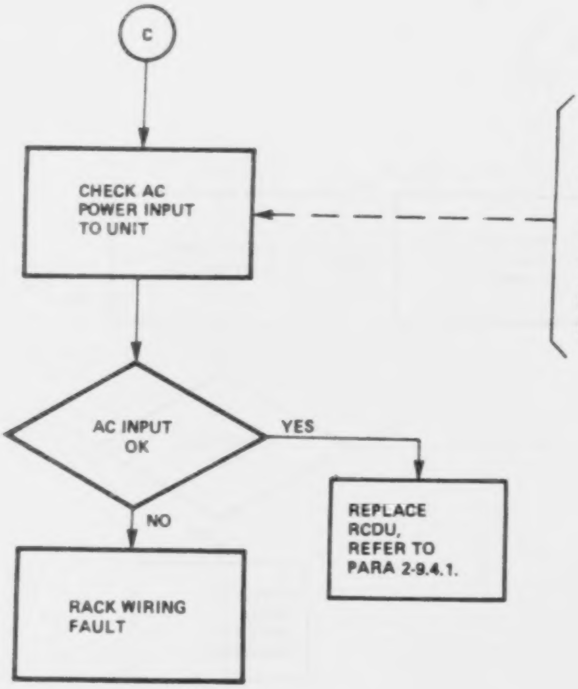


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 79 of 109)


C
CHECK AC POWER INPUT TO UNIT
AC INPUT OK
YES
NO
REPLACE RCDU, REFER TO PARA 2-9.4.1.
RACK WIRING FAULT

OPEN THE OPER CIRCUIT BREAKER ON THE PDP

ACCESS THE RCDU REAR PANEL CONNECTORS

DISCONNECT CABLE W1 CONNECTED TO J1 AT THE RCDU REAR PANEL

CLOSE THE OPER CIRCUIT BREAKER ON THE PDP

USING A MULTIMETER SET TO THE VAC RANGE, CHECK THE VOLTAGE BETWEEN PIN A AND PIN C OF W1 (P1)

MEASURED VOLTAGE SHOULD BE 120 ± 11 VDC

57818-80

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 80 of 109)

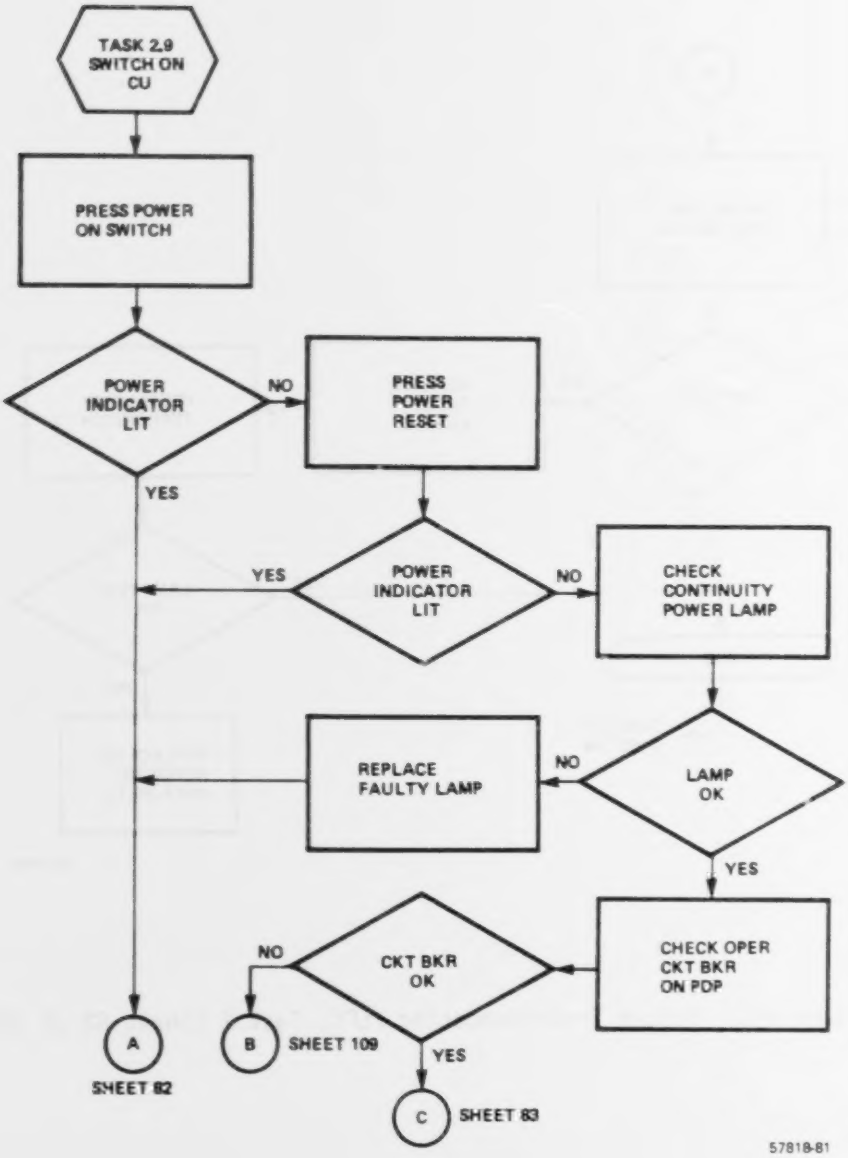


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 81 of 109)

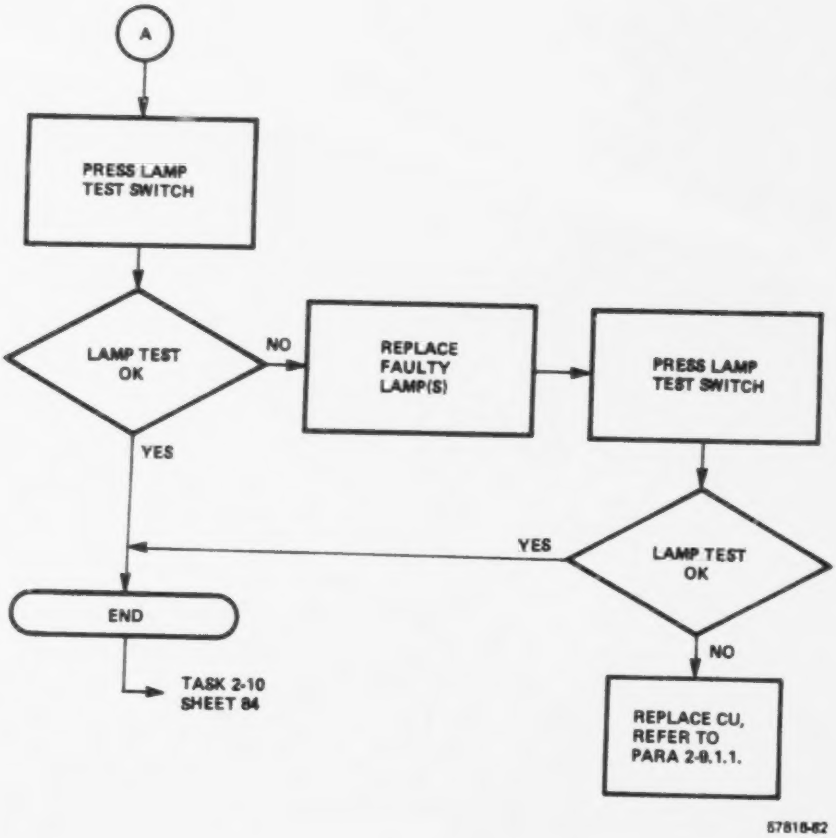
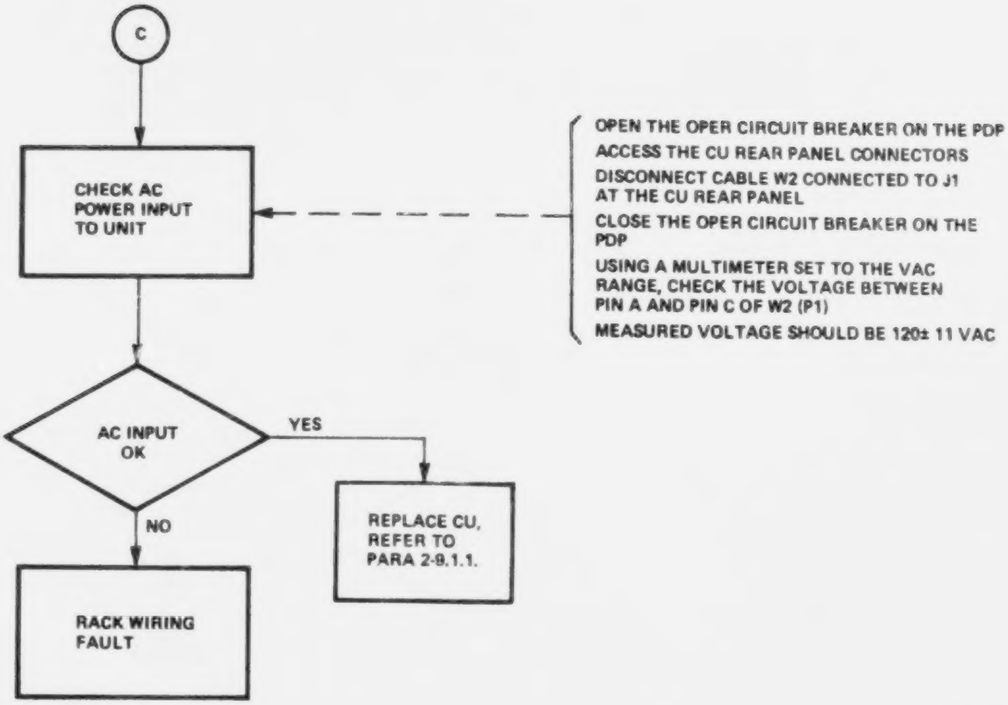


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 82 of 109)


C
CHECK AC POWER INPUT TO UNIT
OPEN THE OPER CIRCUIT BREAKER ON THE PDP
ACCESS THE CU REAR PANEL CONNECTORS
DISCONNECT CABLE W2 CONNECTED TO J1 AT THE CU REAR PANEL
CLOSE THE OPER CIRCUIT BREAKER ON THE PDP
USING A MULTIMETER SET TO THE VAC RANGE, CHECK THE VOLTAGE BETWEEN PIN A AND PIN C OF W2 (P1)
MEASURED VOLTAGE SHOULD BE 120± 11 VAC
AC INPUT OK
YES
NO
REPLACE CU, REFER TO PARA 2-9.1.1.
RACK WIRING FAULT

57810-83

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 83 of 109)

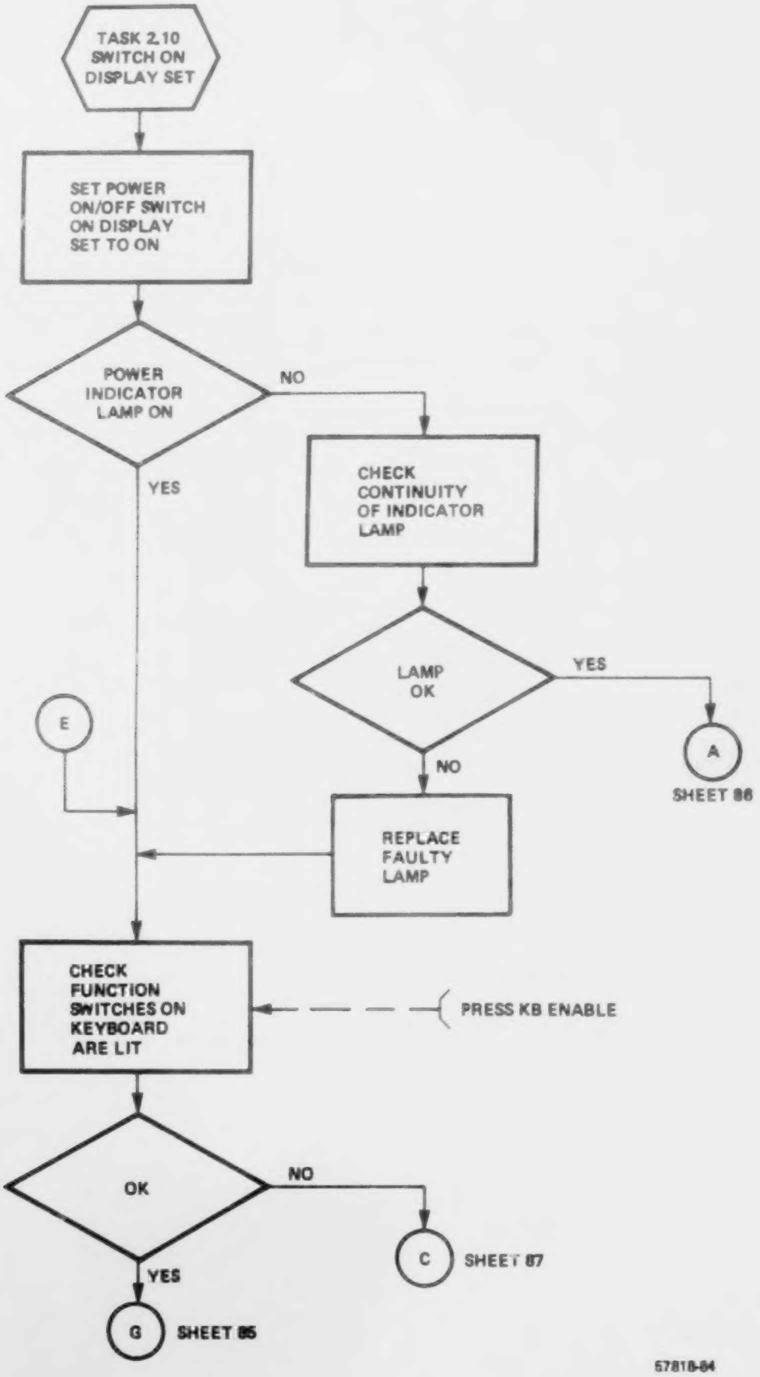

TASK 2.10 SWITCH ON DISPLAY SET
SET POWER ON/OFF SWITCH ON DISPLAY SET TO ON
POWER INDICATOR LAMP ON
NO
YES
CHECK CONTINUITY OF INDICATOR LAMP
LAMP OK
YES
A
SHEET 86
NO
E
REPLACE FAULTY LAMP
CHECK FUNCTION SWITCHES ON KEYBOARD ARE LIT
PRESS KB ENABLE
OK
NO
C
SHEET 87
YES
G
SHEET 85
57818-84

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 84 of 109)

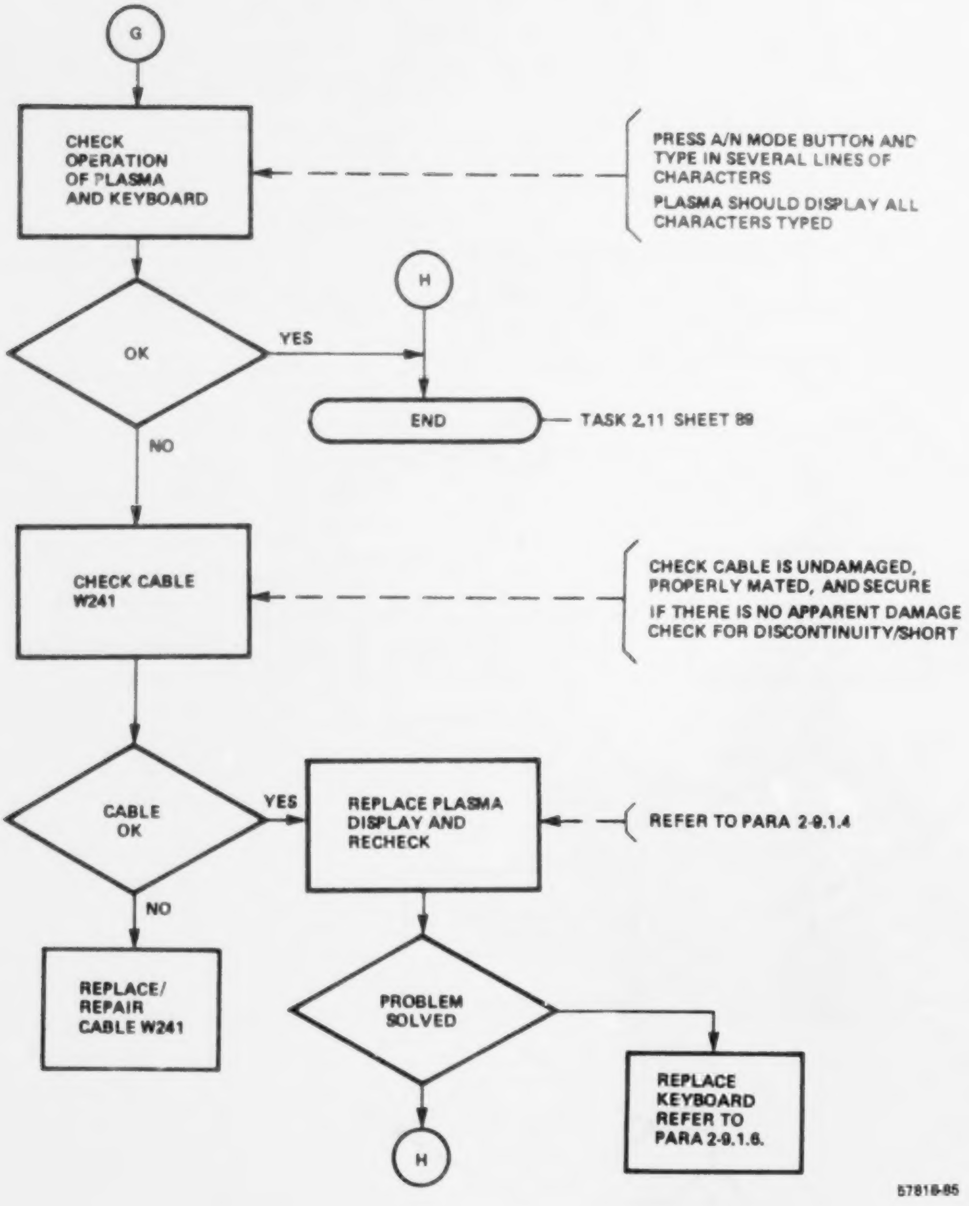

G
CHECK OPERATION OF PLASMA AND KEYBOARD
PRESS A/N MODE BUTTON AND TYPE IN SEVERAL LINES OF CHARACTERS
PLASMA SHOULD DISPLAY ALL CHARACTERS TYPED
OK
YES
H
END
TASK 2.11 SHEET 89
NO
CHECK CABLE W241
CHECK CABLE IS UNDAMAGED, PROPERLY MATED, AND SECURE
IF THERE IS NO APPARENT DAMAGE CHECK FOR DISCONTINUITY/SHORT
CABLE OK
YES
REPLACE PLASMA DISPLAY AND RECHECK
REFER TO PARA 2-9.1.4
NO
REPLACE/ REPAIR CABLE W241
PROBLEM SOLVED
REPLACE KEYBOARD REFER TO PARA 2-9.1.6.
H
57816-85

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 85 of 109)

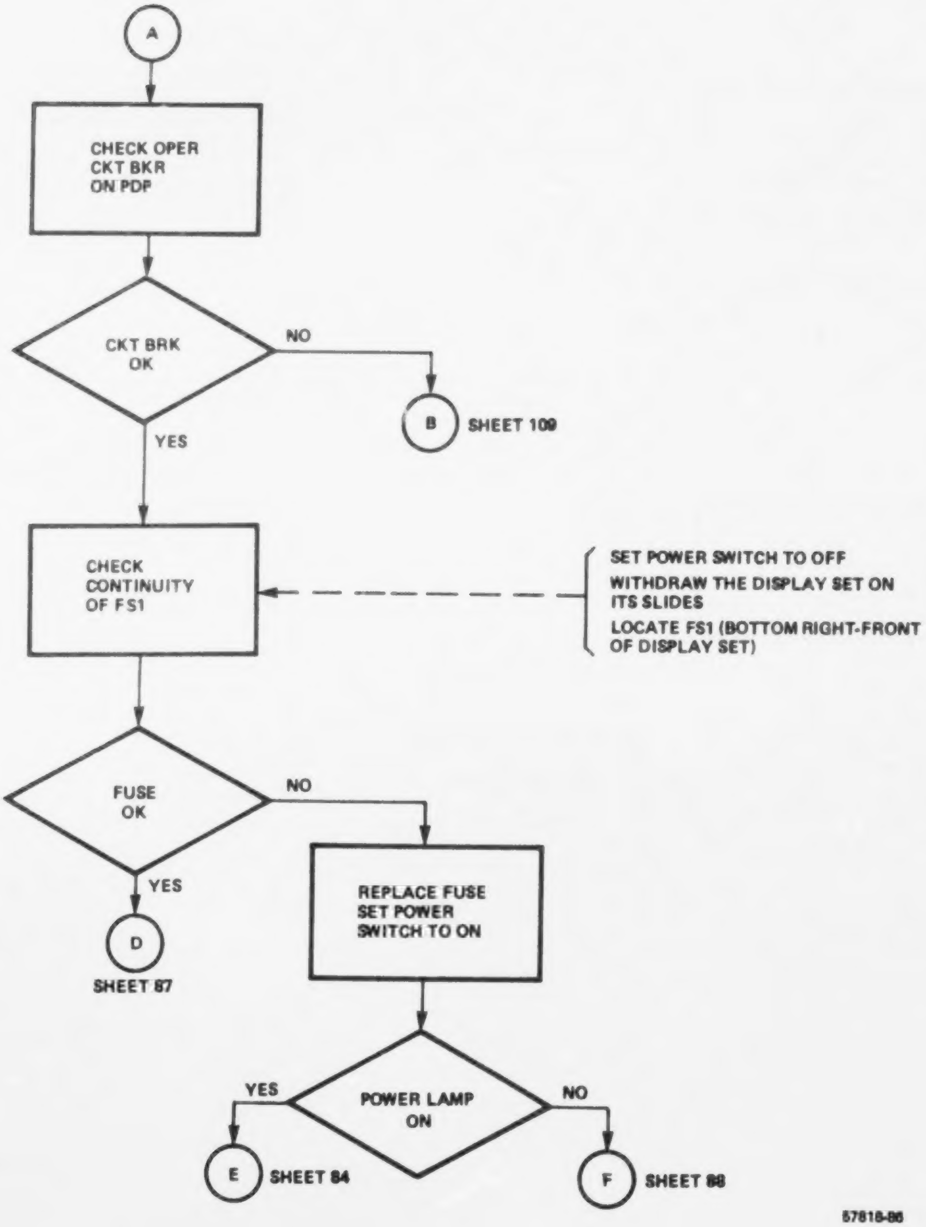

A
CHECK OPER CKT BKR ON PDP
CKT BRK OK
NO
B
SHEET 109
YES
CHECK CONTINUITY OF FS1
SET POWER SWITCH TO OFF
WITHDRAW THE DISPLAY SET ON ITS SLIDES
LOCATE FS1 (BOTTOM RIGHT-FRONT OF DISPLAY SET)
FUSE OK
NO
YES
D
SHEET 87
REPLACE FUSE SET POWER SWITCH TO ON
POWER LAMP ON
YES
NO
E
SHEET 84
F
SHEET 88
57818-86

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 86 of 109)

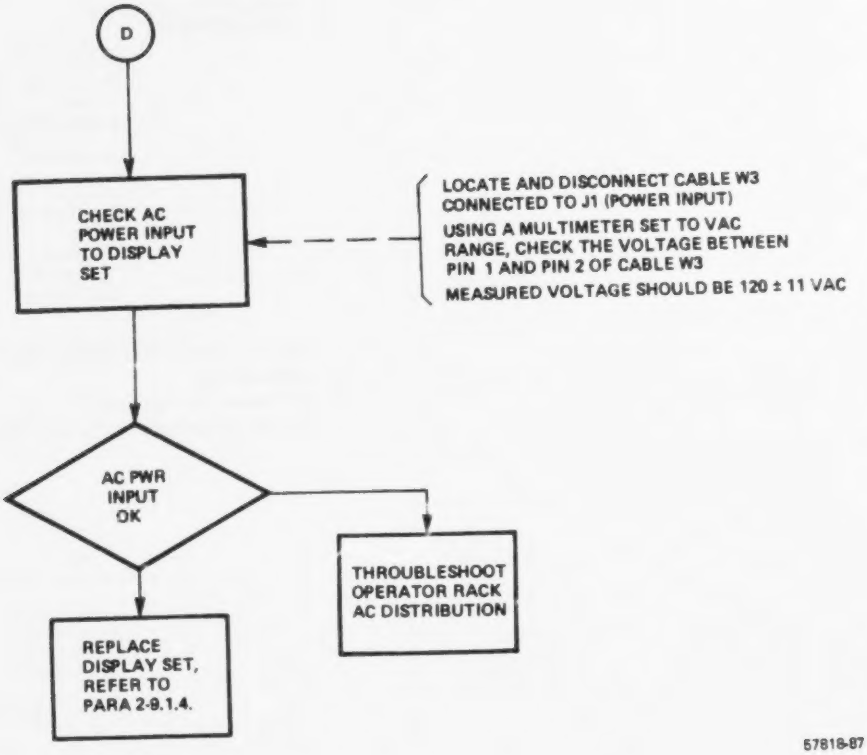

D
CHECK AC POWER INPUT TO DISPLAY SET
LOCATE AND DISCONNECT CABLE W3 CONNECTED TO J1 (POWER INPUT)
USING A MULTIMETER SET TO VAC RANGE, CHECK THE VOLTAGE BETWEEN PIN 1 AND PIN 2 OF CABLE W3
MEASURED VOLTAGE SHOULD BE 120 ± 11 VAC
AC PWR INPUT OK
THROUBLESHOOT OPERATOR RACK AC DISTRIBUTION
REPLACE DISPLAY SET, REFER TO PARA 2-9.1.4.
57818-87

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 87 of 109)

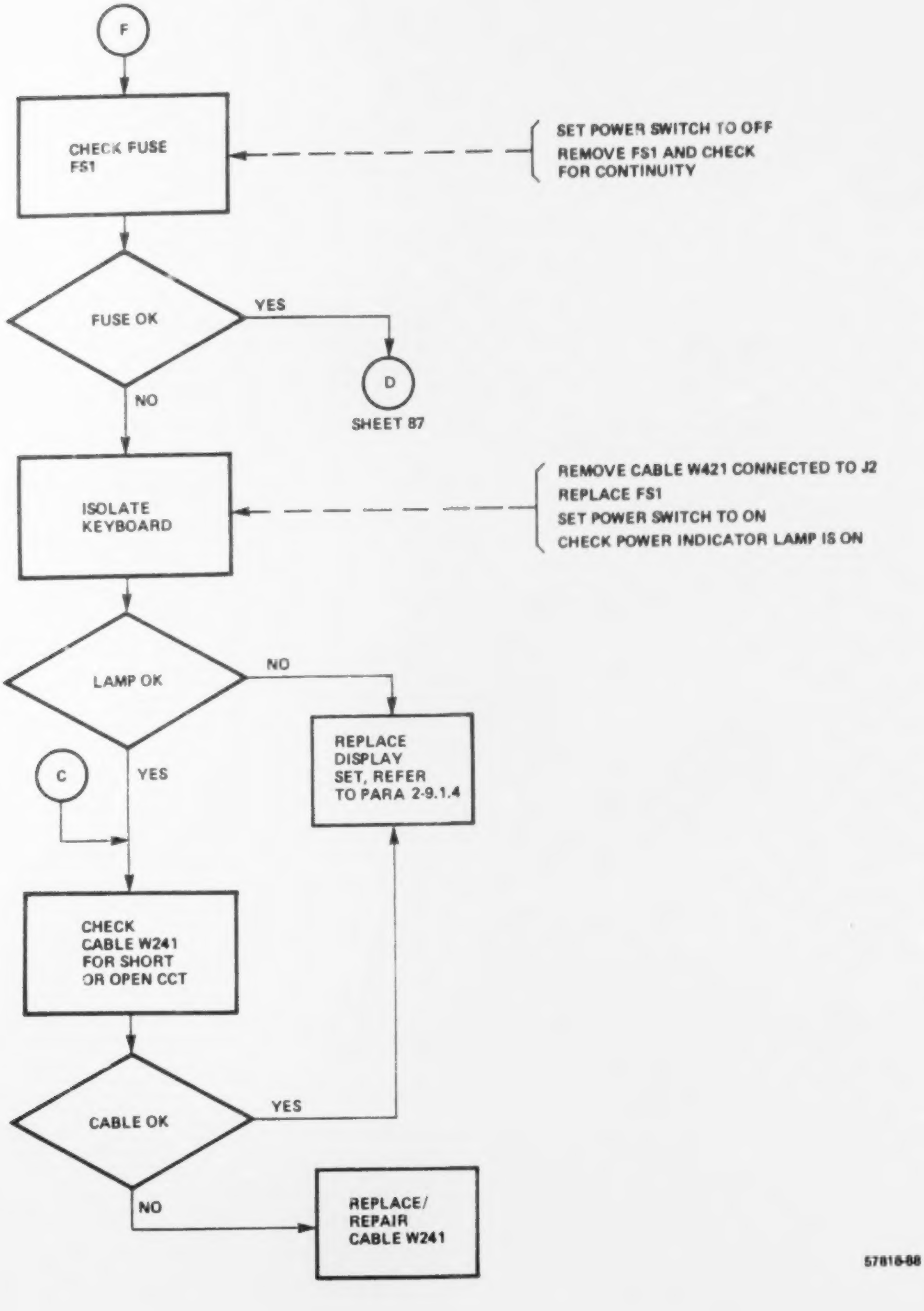
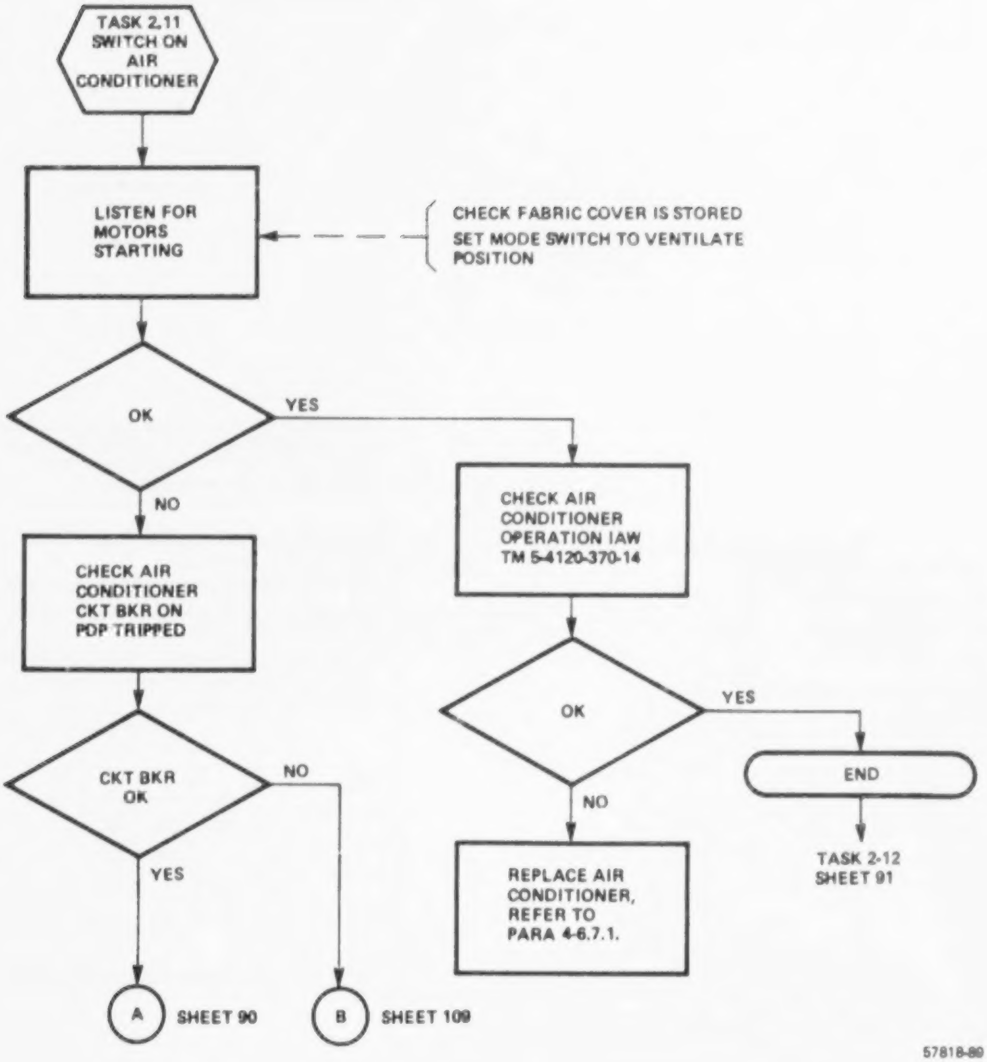
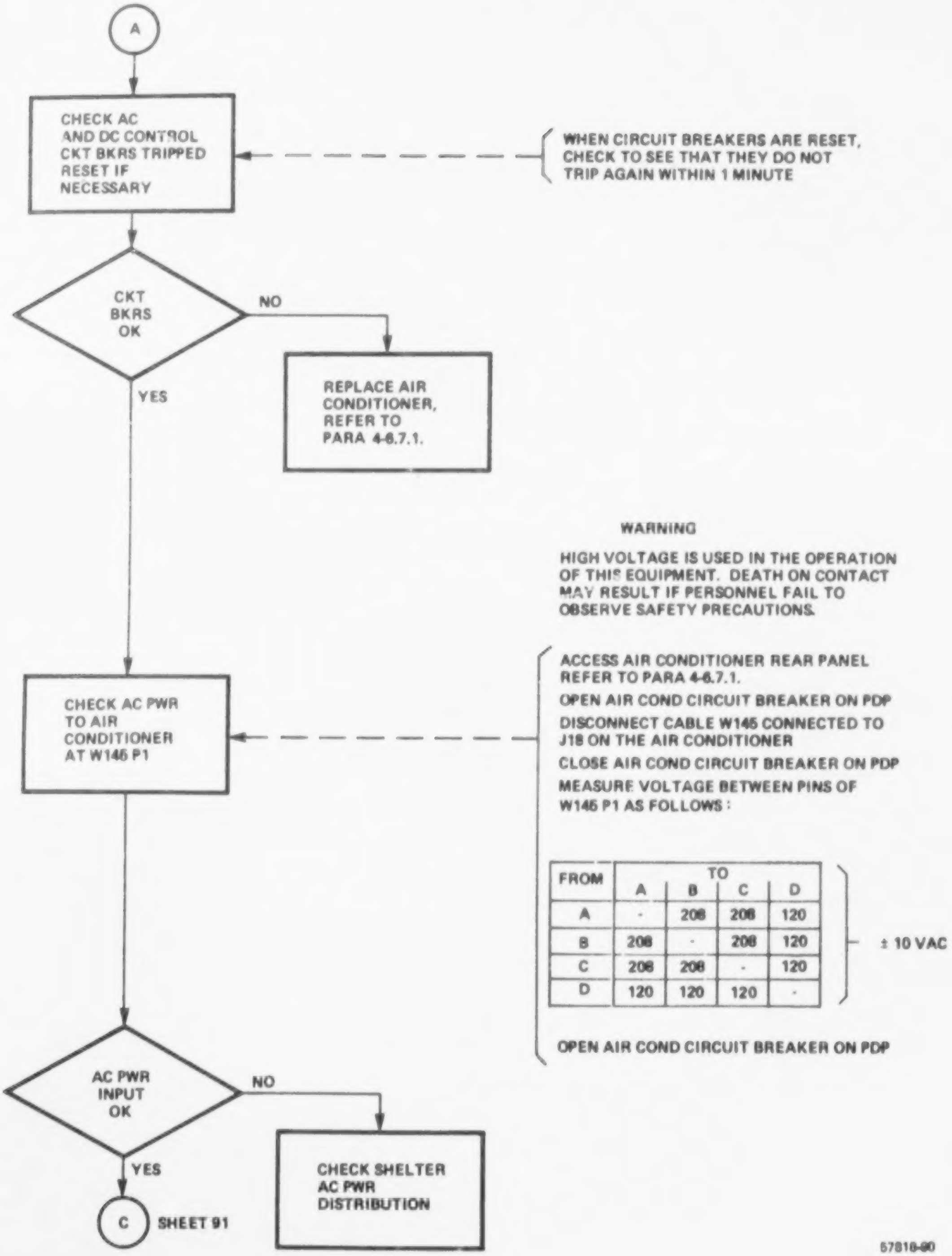

F
CHECK FUSE FS1
SET POWER SWITCH TO OFF
REMOVE FS1 AND CHECK FOR CONTINUITY
FUSE OK
YES
D
SHEET 87
NO
ISOLATE KEYBOARD
REMOVE CABLE W421 CONNECTED TO J2
REPLACE FS1
SET POWER SWITCH TO ON
CHECK POWER INDICATOR LAMP IS ON
LAMP OK
NO
REPLACE DISPLAY SET, REFER TO PARA 2-9.1.4
C
YES
CHECK CABLE W241 FOR SHORT OR OPEN CCT
CABLE OK
YES
NO
REPLACE/ REPAIR CABLE W241
57818-88

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 88 of 109)



57818-89

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 89 of 109)


A
CHECK AC AND DC CONTROL CKT BKRS TRIPPED RESET IF NECESSARY
CKT BKRS OK
NO
REPLACE AIR CONDITIONER, REFER TO PARA 4-6.7.1.
YES
CHECK AC PWR TO AIR CONDITIONER AT W145 P1
AC PWR INPUT OK
NO
CHECK SHELTER AC PWR DISTRIBUTION
YES
C
SHEET 91

WHEN CIRCUIT BREAKERS ARE RESET, CHECK TO SEE THAT THEY DO NOT TRIP AGAIN WITHIN 1 MINUTE

WARNING

HIGH VOLTAGE IS USED IN THE OPERATION OF THIS EQUIPMENT. DEATH ON CONTACT MAY RESULT IF PERSONNEL FAIL TO OBSERVE SAFETY PRECAUTIONS.

ACCESS AIR CONDITIONER REAR PANEL REFER TO PARA 4-6.7.1.

OPEN AIR COND CIRCUIT BREAKER ON PDP

DISCONNECT CABLE W145 CONNECTED TO J18 ON THE AIR CONDITIONER

CLOSE AIR COND CIRCUIT BREAKER ON PDP

MEASURE VOLTAGE BETWEEN PINS OF W145 P1 AS FOLLOWS :

FROM	TO			
	A	B	C	D
A	-	208	208	120
B	208	-	208	120
C	208	208	-	120
D	120	120	120	-

± 10 VAC

OPEN AIR COND CIRCUIT BREAKER ON PDP

57818-90

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 90 of 109)

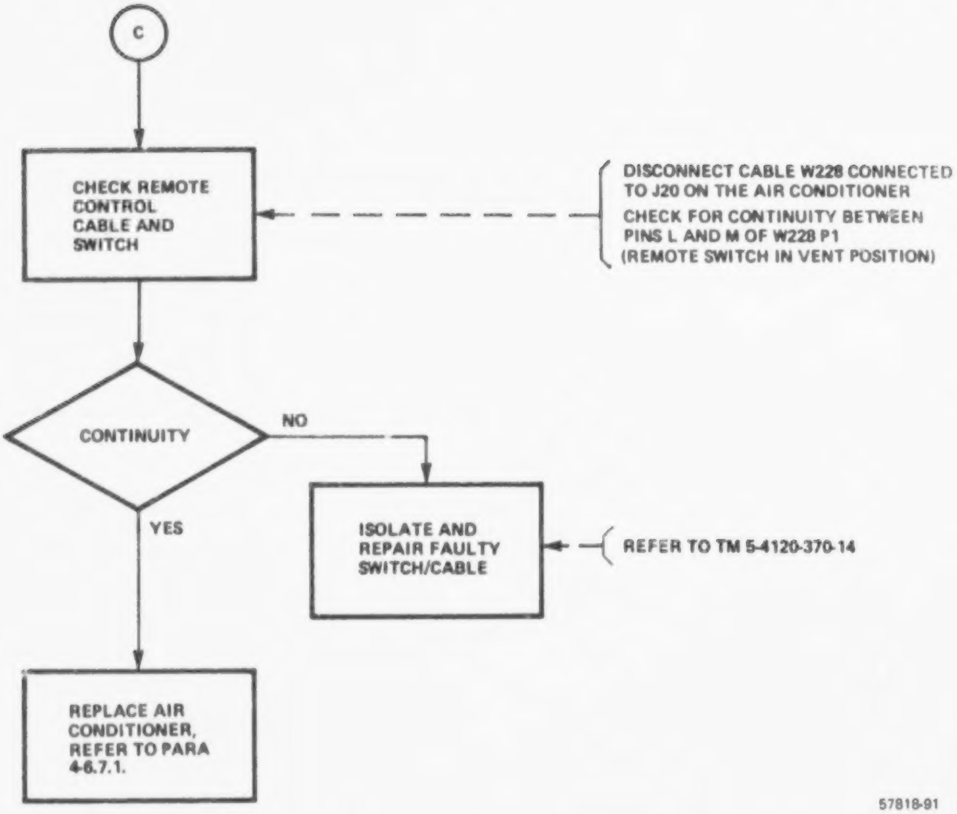

C
CHECK REMOTE CONTROL CABLE AND SWITCH
DISCONNECT CABLE W228 CONNECTED TO J20 ON THE AIR CONDITIONER
CHECK FOR CONTINUITY BETWEEN PINS L AND M OF W228 P1 (REMOTE SWITCH IN VENT POSITION)
CONTINUITY
NO
YES
ISOLATE AND REPAIR FAULTY SWITCH/CABLE
REFER TO TM 5-4120-370-14
REPLACE AIR CONDITIONER, REFER TO PARA 4-6.7.1.
57818-91

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 91 of 109)

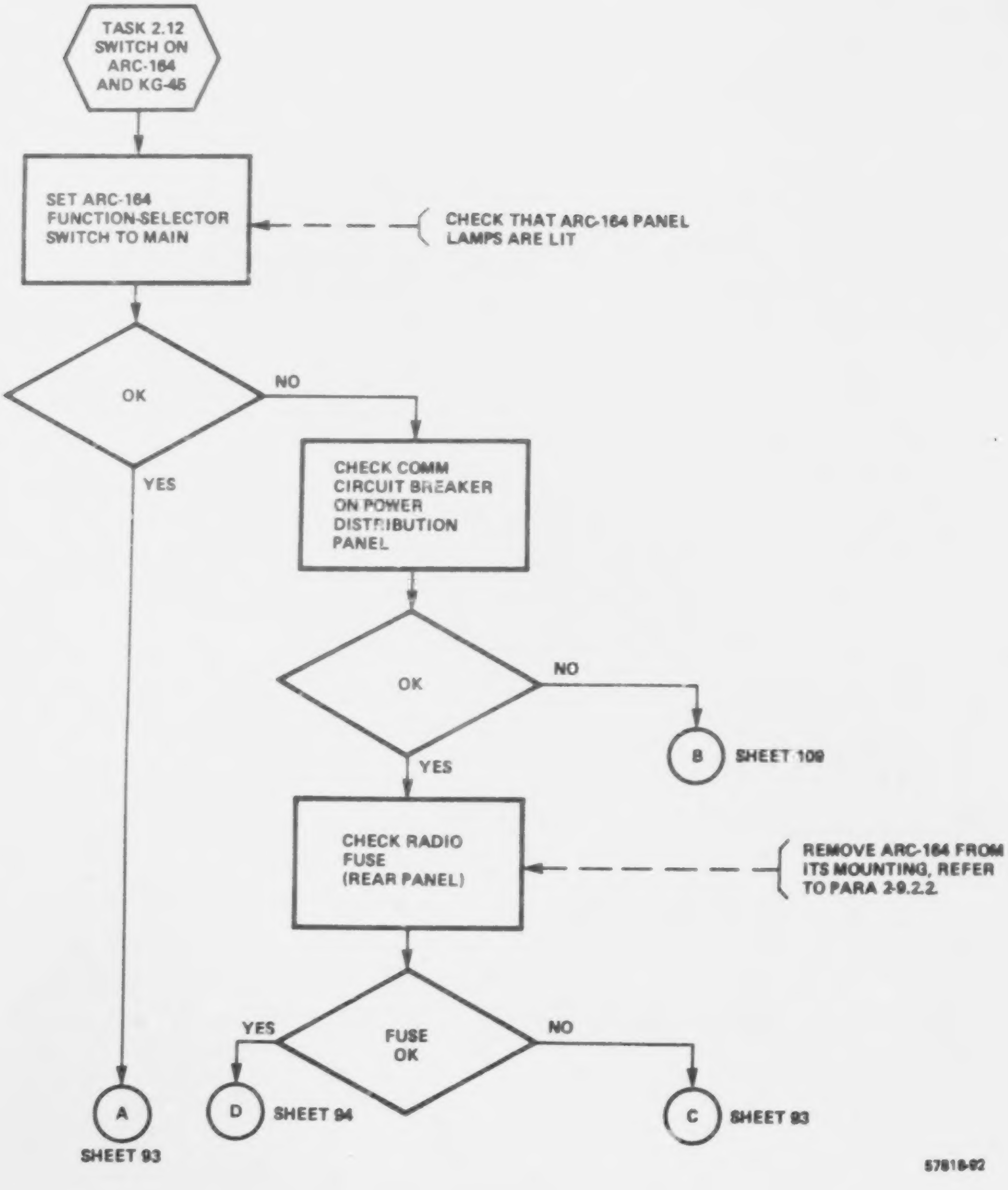


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 92 of 109)

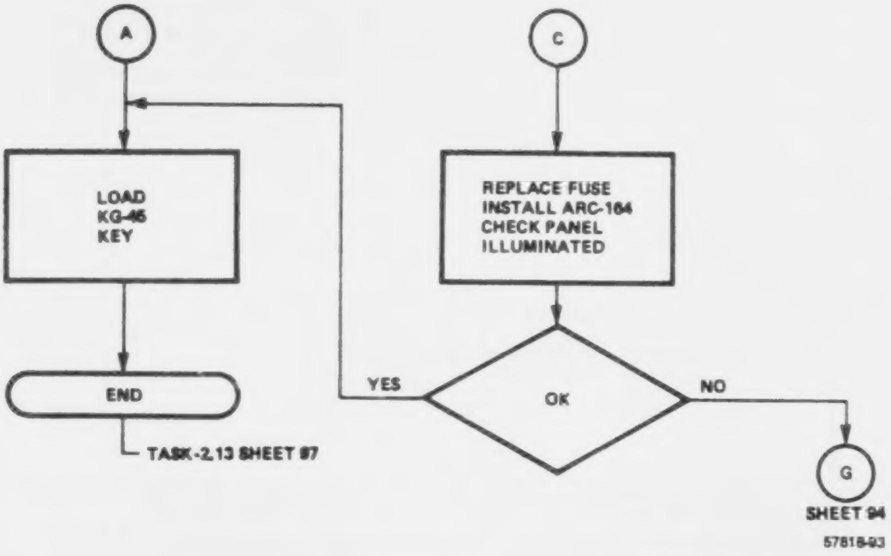
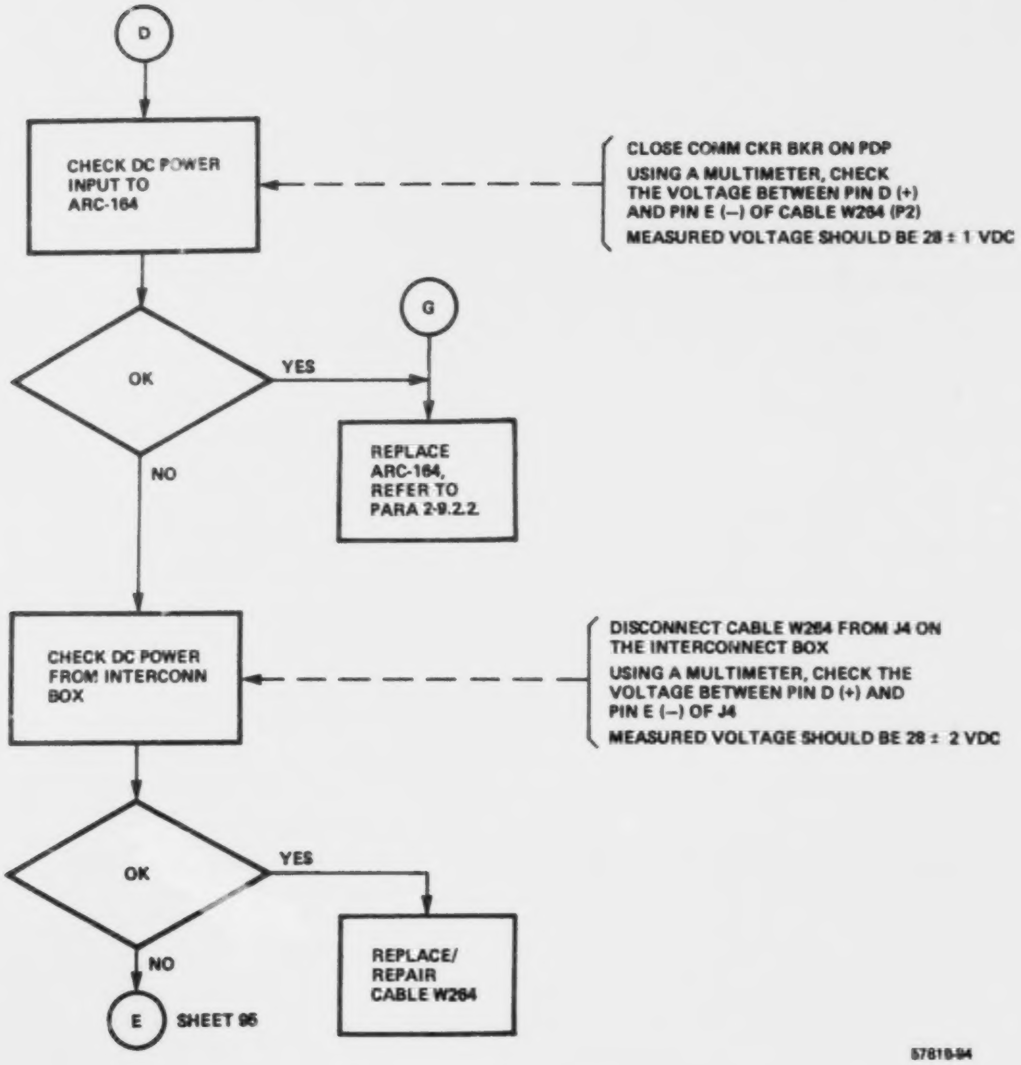


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 93 of 109)


D
CHECK DC POWER INPUT TO ARC-164
OK
YES
G
REPLACE ARC-164, REFER TO PARA 2-9.2.2.
NO
CHECK DC POWER FROM INTERCONN BOX
OK
YES
REPLACE/ REPAIR CABLE W264
NO
E
SHEET 95
57810-94

CLOSE COMM CKR BKR ON PDP

USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN D (+) AND PIN E (–) OF CABLE W264 (P2)

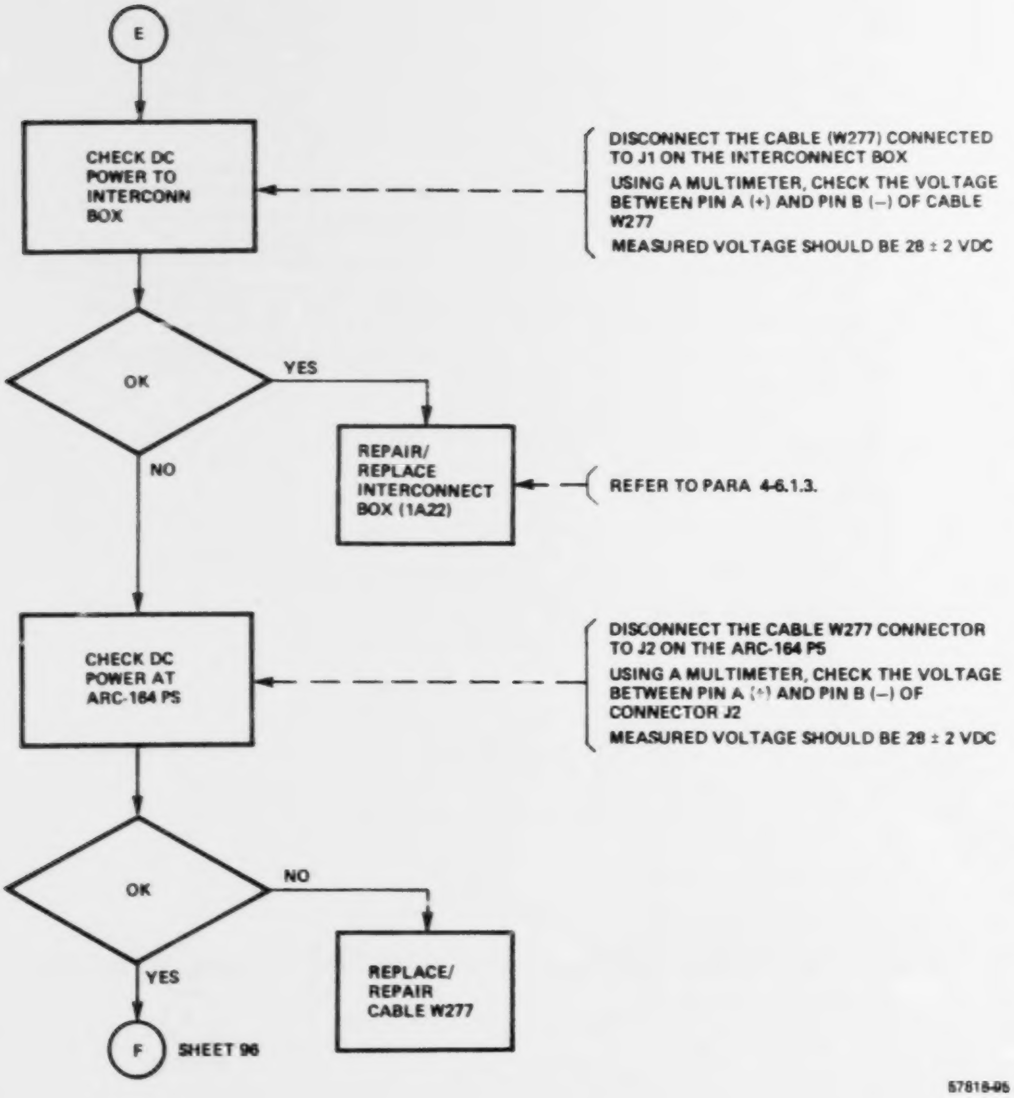
MEASURED VOLTAGE SHOULD BE 28 ± 1 VDC

DISCONNECT CABLE W264 FROM J4 ON THE INTERCONNECT BOX

USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN D (+) AND PIN E (–) OF J4

MEASURED VOLTAGE SHOULD BE 28 ± 2 VDC

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 94 of 109)


E
CHECK DC POWER TO INTERCONN BOX
OK
YES
NO
REPAIR/ REPLACE INTERCONNECT BOX (1A22)
CHECK DC POWER AT ARC-164 PS
OK
NO
YES
REPLACE/ REPAIR CABLE W277
F
SHEET 96
57818-95

DISCONNECT THE CABLE (W277) CONNECTED TO J1 ON THE INTERCONNECT BOX

USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN A (+) AND PIN B (–) OF CABLE W277

MEASURED VOLTAGE SHOULD BE 28 ± 2 VDC

REFER TO PARA 4-6.1.3.

DISCONNECT THE CABLE W277 CONNECTOR TO J2 ON THE ARC-164 PS

USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN A (+) AND PIN B (–) OF CONNECTOR J2

MEASURED VOLTAGE SHOULD BE 28 ± 2 VDC

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 95 of 109)

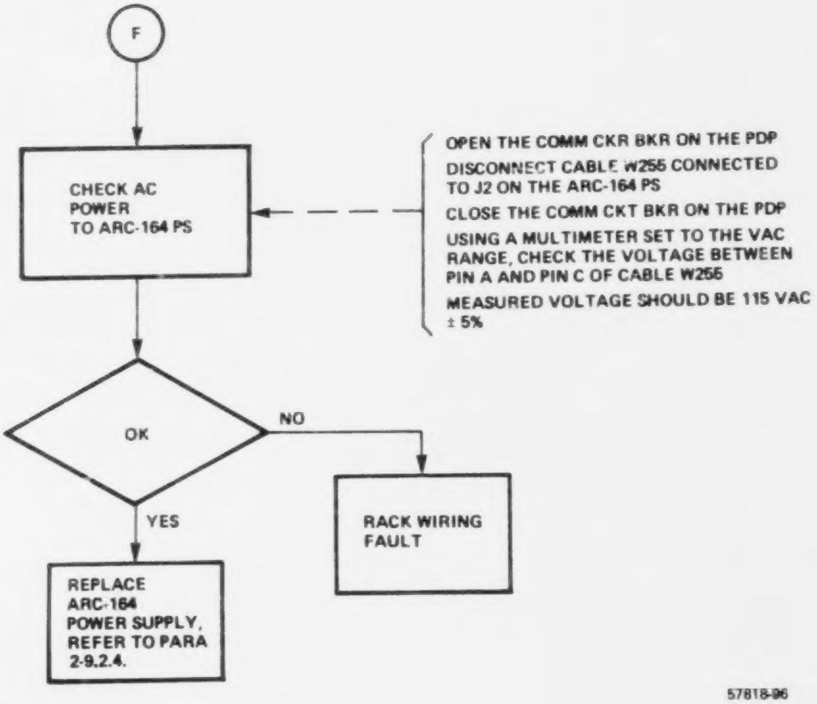

F
CHECK AC POWER TO ARC-164 PS
OPEN THE COMM CKR BKR ON THE PDP
DISCONNECT CABLE W255 CONNECTED TO J2 ON THE ARC-164 PS
CLOSE THE COMM CKT BKR ON THE PDP
USING A MULTIMETER SET TO THE VAC RANGE, CHECK THE VOLTAGE BETWEEN PIN A AND PIN C OF CABLE W255
MEASURED VOLTAGE SHOULD BE 115 VAC ± 5%
OK
NO
YES
RACK WIRING FAULT
REPLACE ARC-164 POWER SUPPLY, REFER TO PARA 2-9.2.4.
57818-96

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 96 of 109)

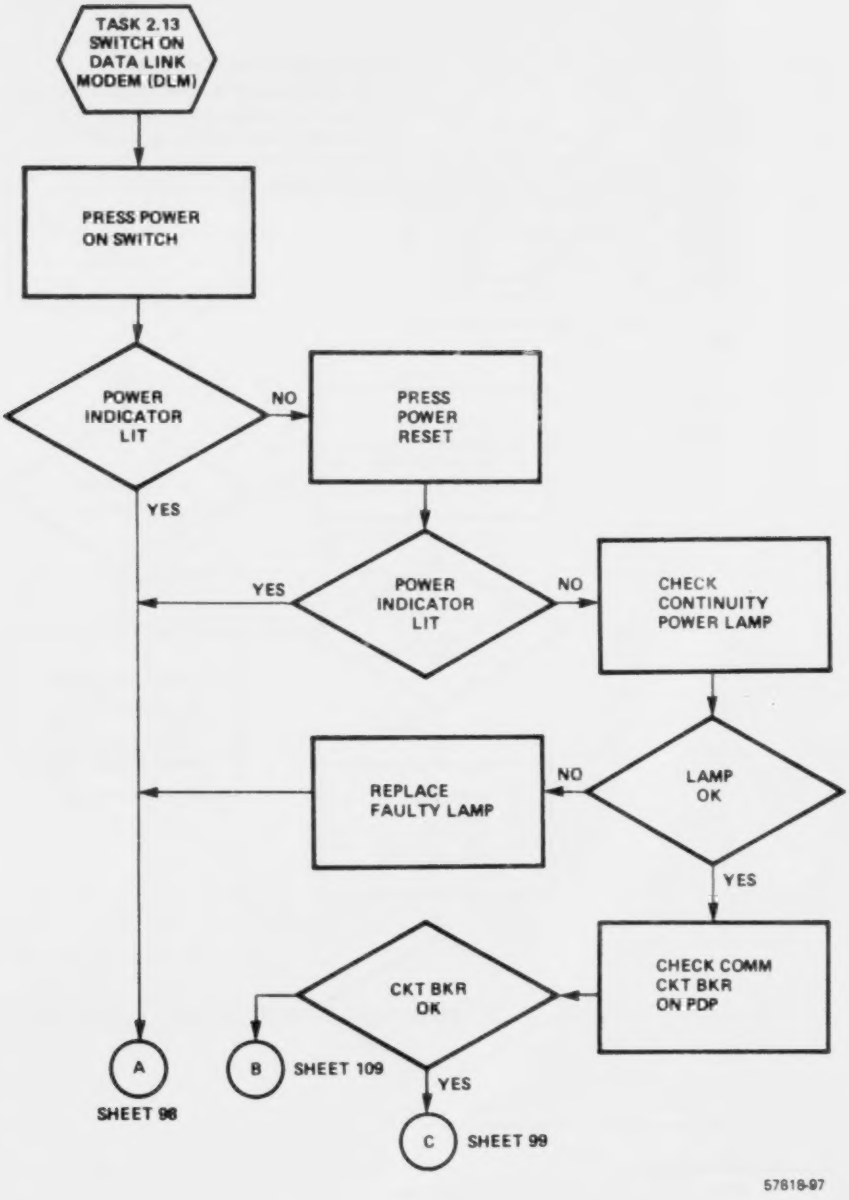


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 97 of 109)

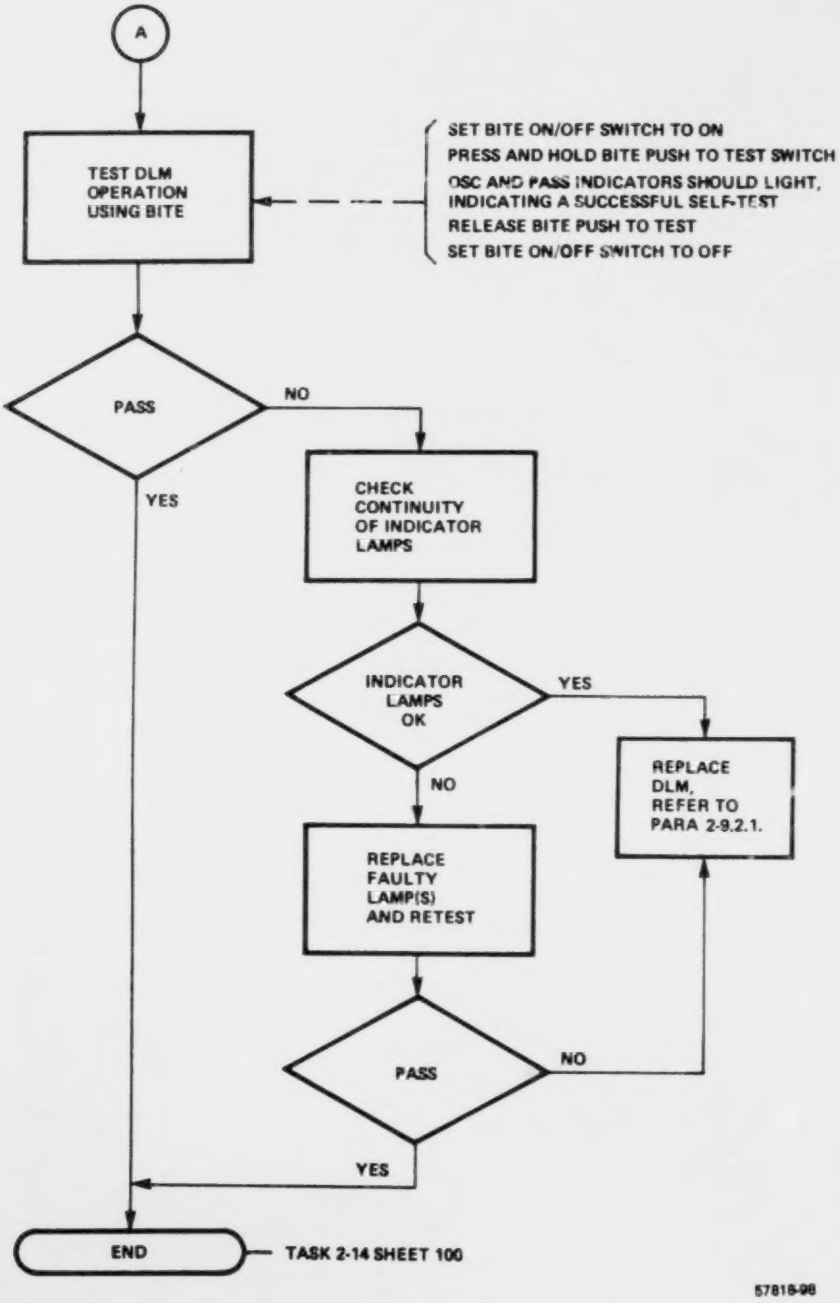
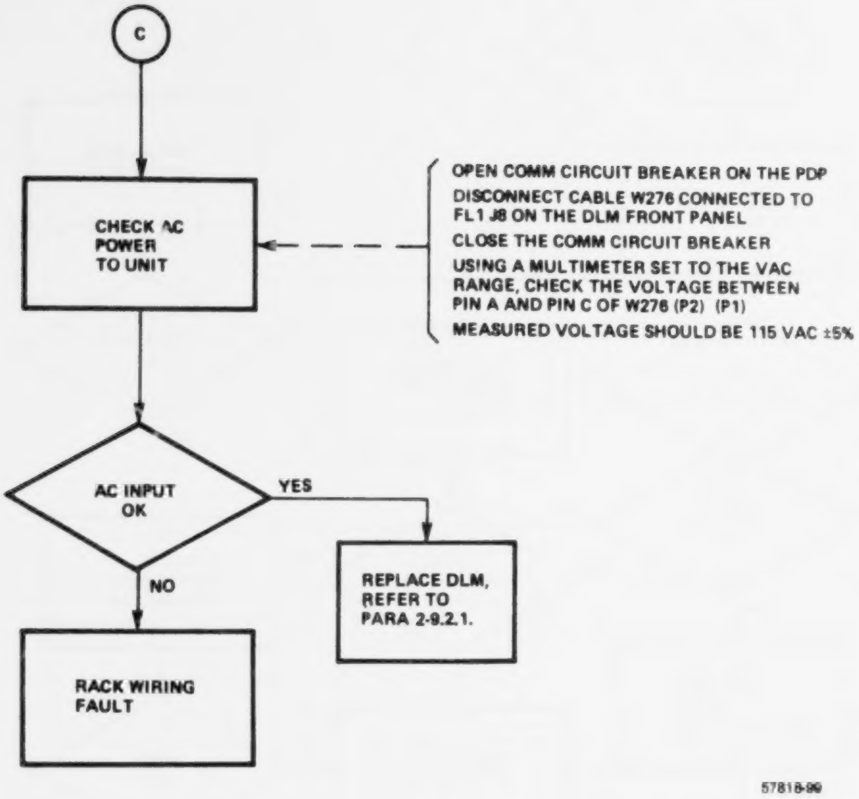

A
TEST DLM OPERATION USING BITE
SET BITE ON/OFF SWITCH TO ON
PRESS AND HOLD BITE PUSH TO TEST SWITCH
OSC AND PASS INDICATORS SHOULD LIGHT, INDICATING A SUCCESSFUL SELF-TEST
RELEASE BITE PUSH TO TEST
SET BITE ON/OFF SWITCH TO OFF
PASS
NO
YES
CHECK CONTINUITY OF INDICATOR LAMPS
INDICATOR LAMPS OK
YES
NO
REPLACE DLM, REFER TO PARA 2-9.2.1.
REPLACE FAULTY LAMP(S) AND RETEST
PASS
NO
YES
END
TASK 2-14 SHEET 100
57818-98

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 98 of 109)



OPEN COMM CIRCUIT BREAKER ON THE PDP

DISCONNECT CABLE W276 CONNECTED TO FL1 J8 ON THE DLM FRONT PANEL

CLOSE THE COMM CIRCUIT BREAKER

USING A MULTIMETER SET TO THE VAC RANGE, CHECK THE VOLTAGE BETWEEN PIN A AND PIN C OF W276 (P2) (P1)

MEASURED VOLTAGE SHOULD BE 115 VAC ±5%

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 99 of 109)

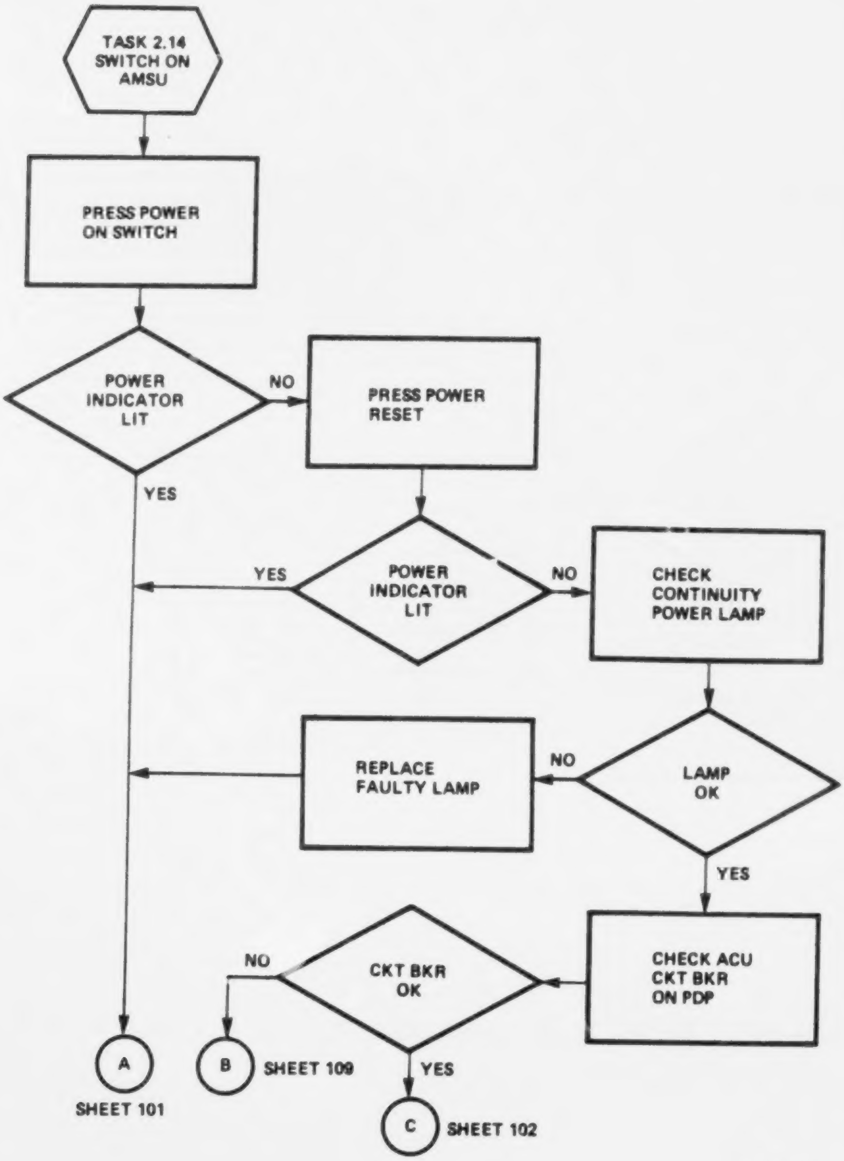


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 100 of 109)

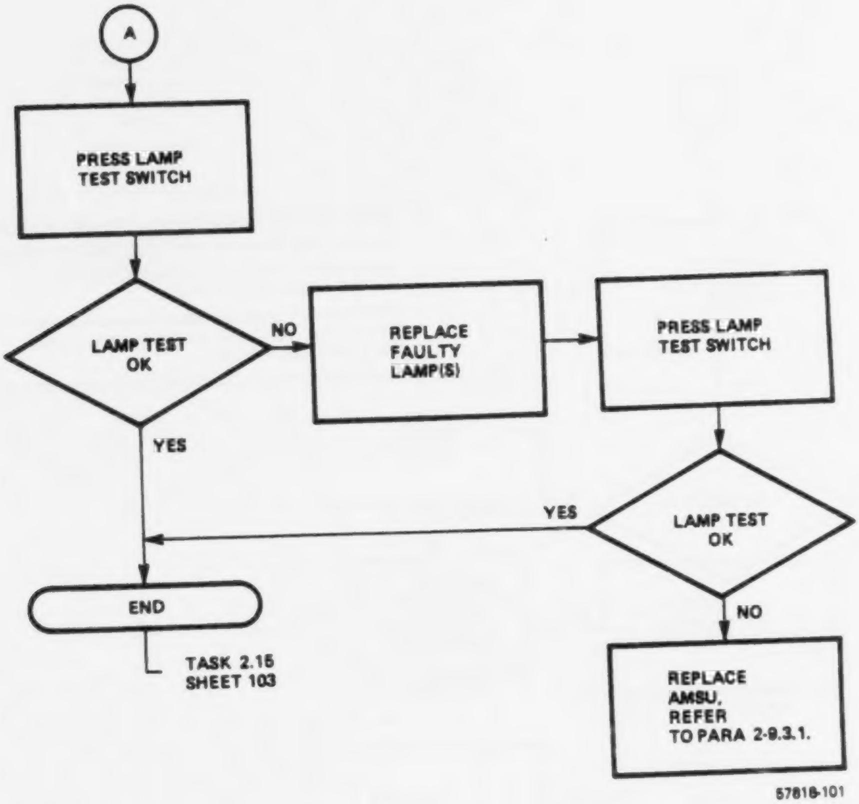


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 101 of 109)

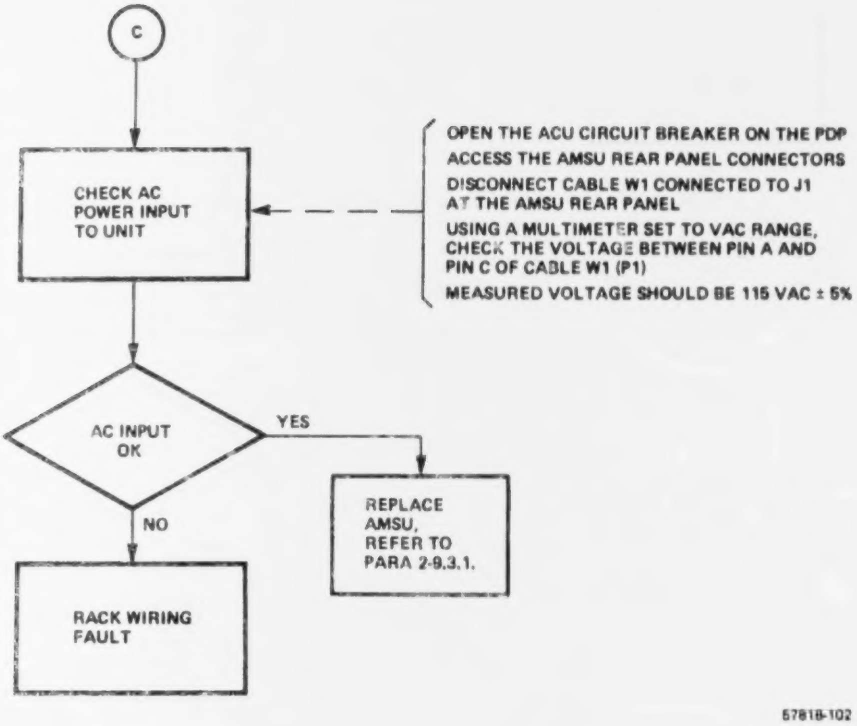

C
CHECK AC POWER INPUT TO UNIT
OPEN THE ACU CIRCUIT BREAKER ON THE PDP
ACCESS THE AMSU REAR PANEL CONNECTORS
DISCONNECT CABLE W1 CONNECTED TO J1 AT THE AMSU REAR PANEL
USING A MULTIMETER SET TO VAC RANGE, CHECK THE VOLTAGE BETWEEN PIN A AND PIN C OF CABLE W1 (P1)
MEASURED VOLTAGE SHOULD BE 115 VAC ± 5%
AC INPUT OK
YES
NO
REPLACE AMSU, REFER TO PARA 2-9.3.1.
RACK WIRING FAULT
67818-102

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 102 of 109)

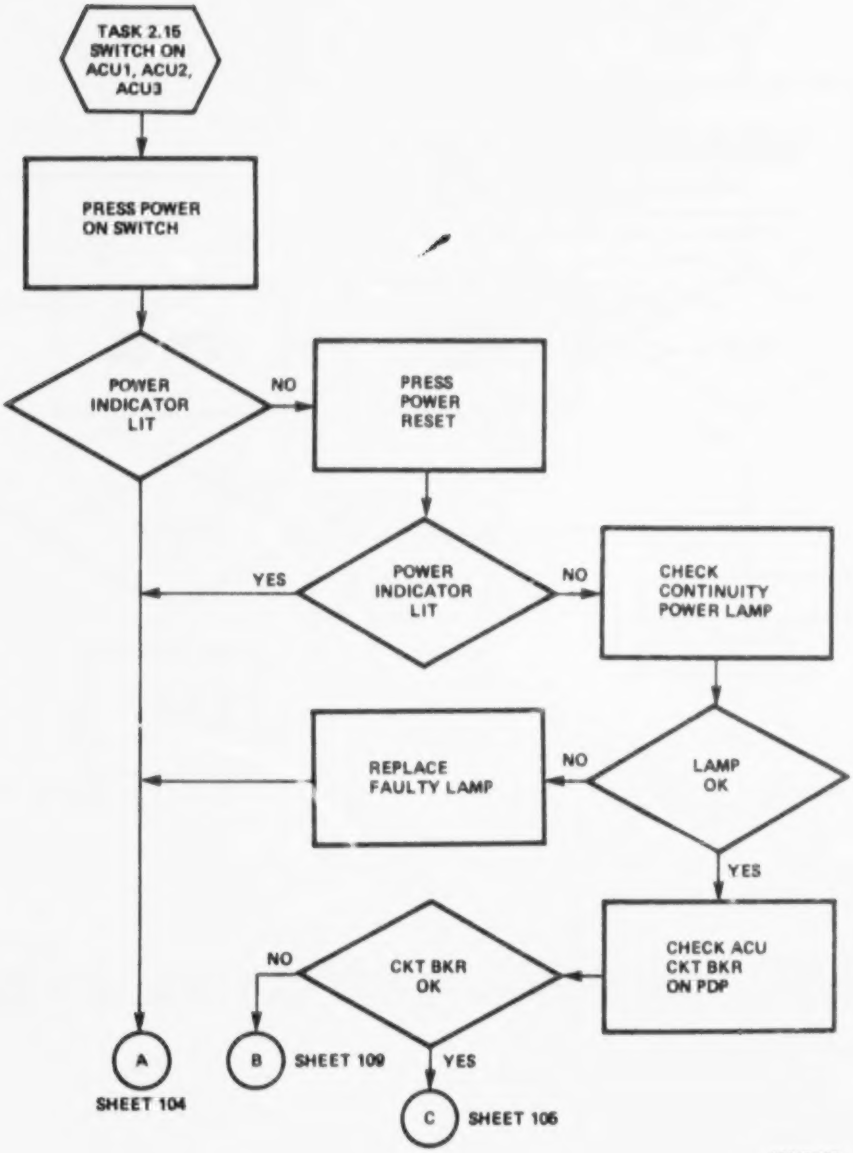


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 103 of 109)

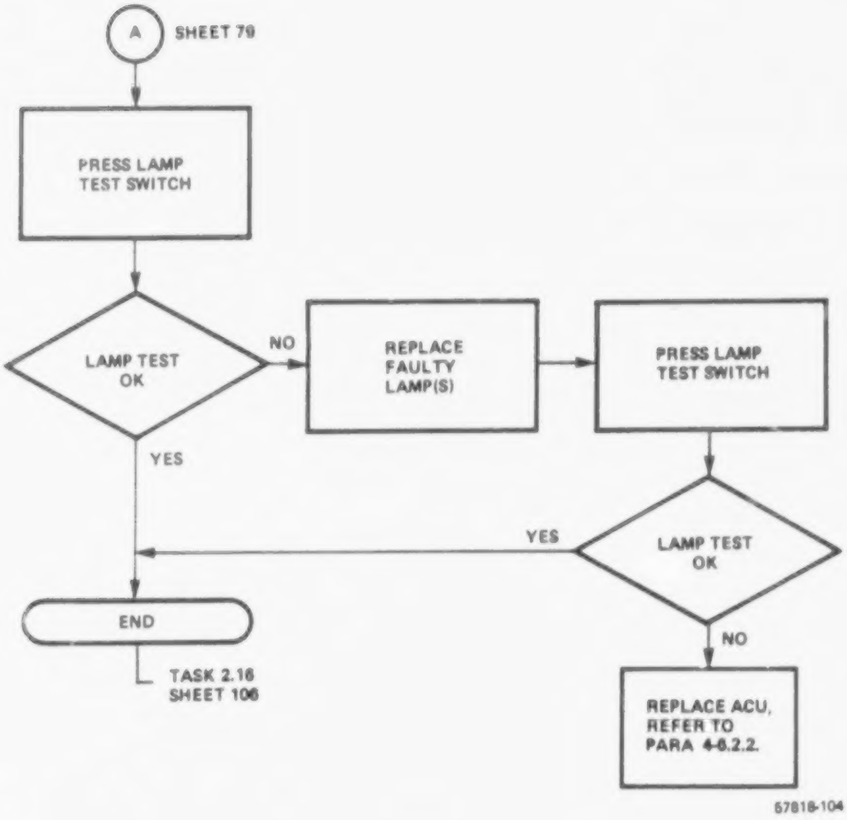
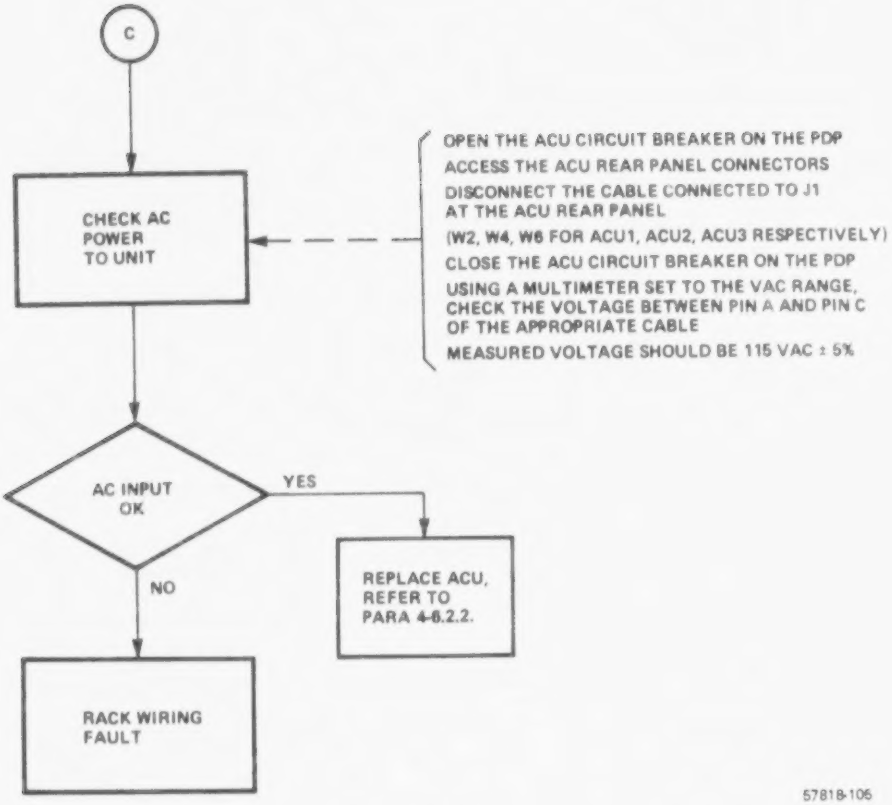


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 104 of 109)



OPEN THE ACU CIRCUIT BREAKER ON THE PDP
ACCESS THE ACU REAR PANEL CONNECTORS
DISCONNECT THE CABLE CONNECTED TO J1 AT THE ACU REAR PANEL
(W2, W4, W6 FOR ACU1, ACU2, ACU3 RESPECTIVELY)
CLOSE THE ACU CIRCUIT BREAKER ON THE PDP
USING A MULTIMETER SET TO THE VAC RANGE, CHECK THE VOLTAGE BETWEEN PIN A AND PIN C OF THE APPROPRIATE CABLE
MEASURED VOLTAGE SHOULD BE 115 VAC ± 5%

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 105 of 109)

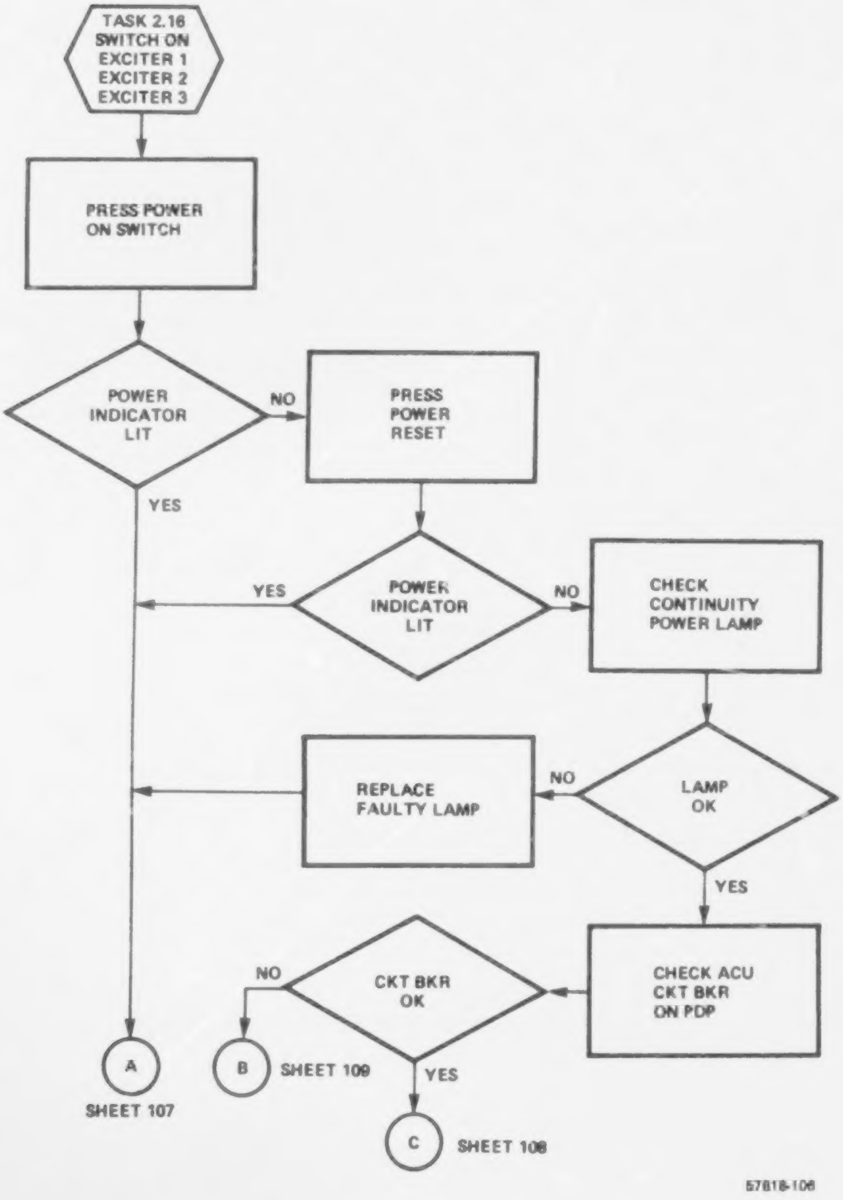


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 106 of 109)

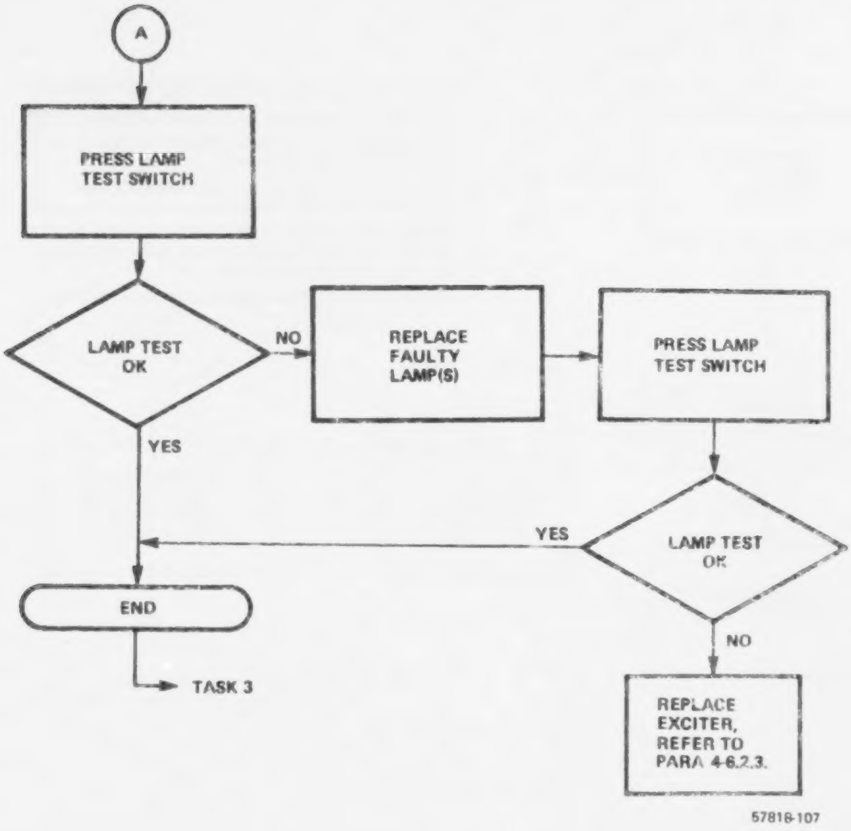


Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 107 of 109)

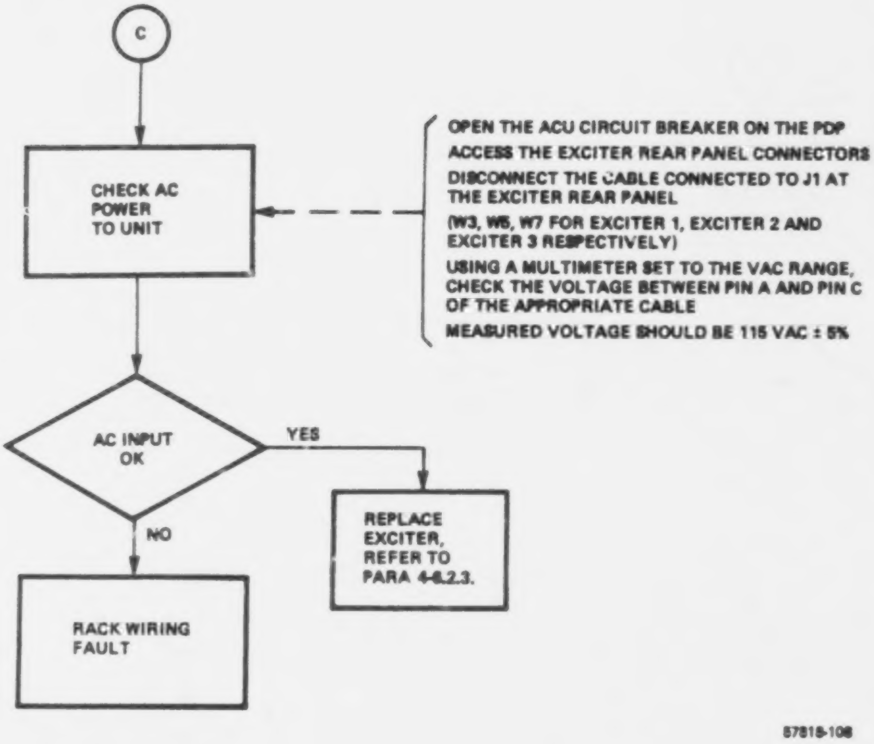

C
CHECK AC POWER TO UNIT
OPEN THE ACU CIRCUIT BREAKER ON THE PDP
ACCESS THE EXCITER REAR PANEL CONNECTORS
DISCONNECT THE CABLE CONNECTED TO J1 AT THE EXCITER REAR PANEL
(W3, W5, W7 FOR EXCITER 1, EXCITER 2 AND EXCITER 3 RESPECTIVELY)
USING A MULTIMETER SET TO THE VAC RANGE, CHECK THE VOLTAGE BETWEEN PIN A AND PIN C OF THE APPROPRIATE CABLE
MEASURED VOLTAGE SHOULD BE 115 VAC ± 5%
AC INPUT OK
YES
NO
REPLACE EXCITER, REFER TO PARA 4-6.2.3.
RACK WIRING FAULT
57818-108

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 108 of 109)

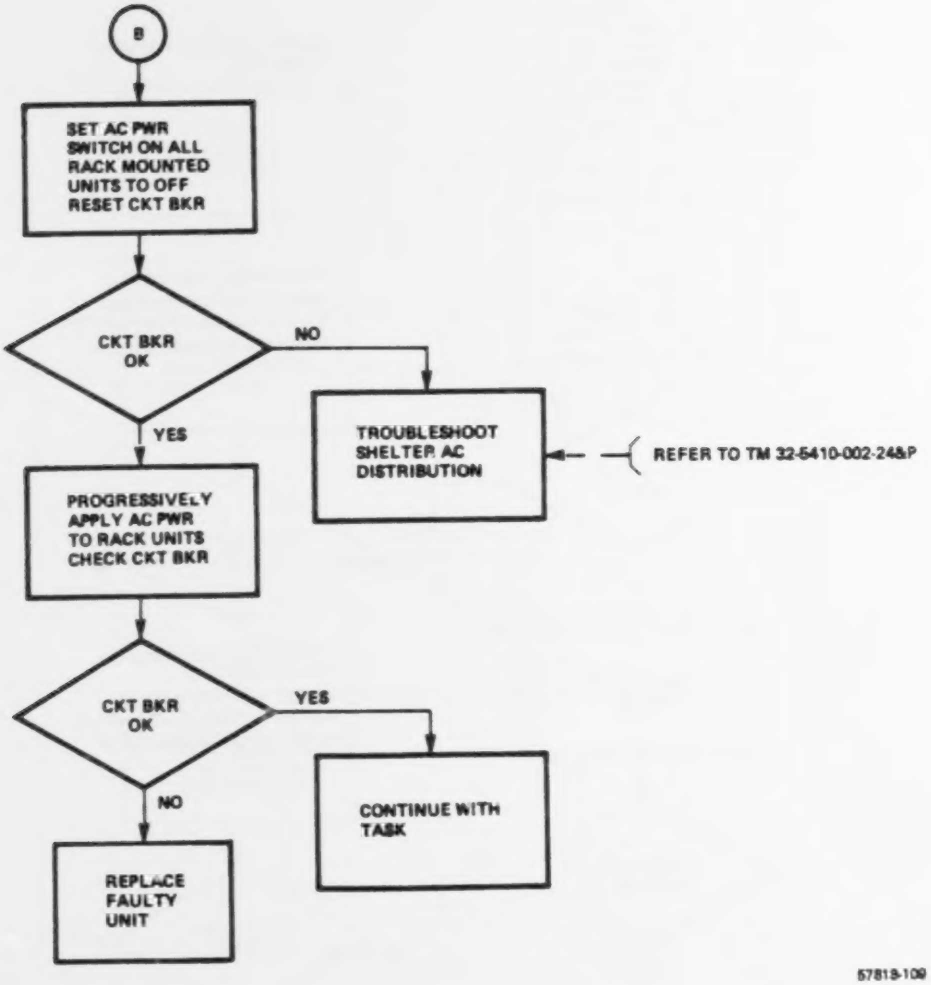

B
SET AC PWR SWITCH ON ALL RACK MOUNTED UNITS TO OFF RESET CKT BKR
CKT BKR OK
NO
YES
TROUBLESHOOT SHELTER AC DISTRIBUTION
REFER TO TM 32-5410-002-24&P
PROGRESSIVELY APPLY AC PWR TO RACK UNITS CHECK CKT BKR
CKT BKR OK
YES
NO
CONTINUE WITH TASK
REPLACE FAULTY UNIT
57819-109

Figure 4-2. System Troubleshooting FLFC, Task 2 (Sheet 109 of 109)

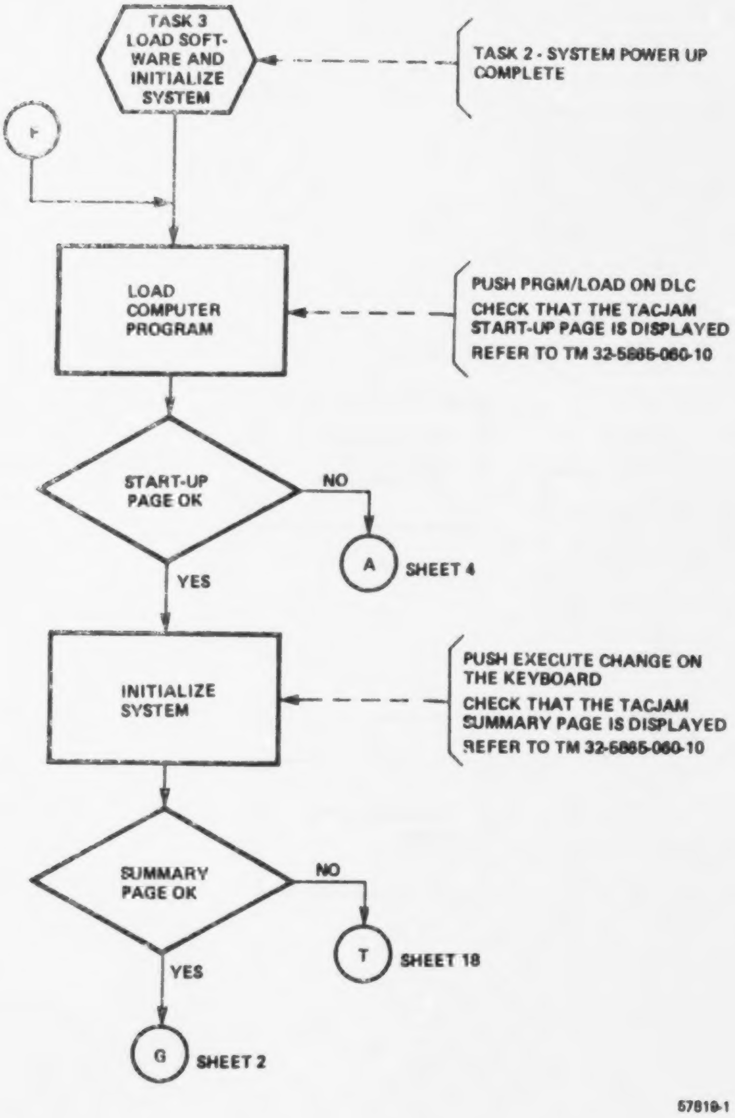


Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 1 of 24)

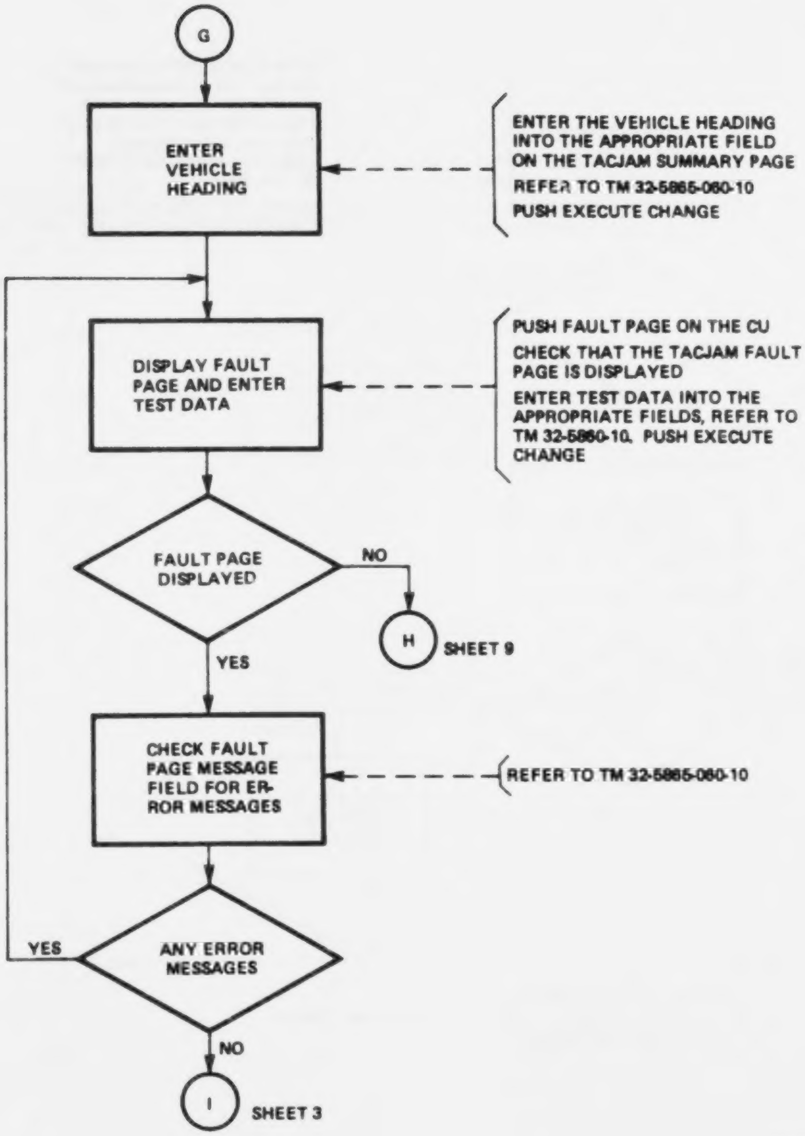

G
ENTER VEHICLE HEADING
ENTER THE VEHICLE HEADING INTO THE APPROPRIATE FIELD ON THE TACJAM SUMMARY PAGE
REFER TO TM 32-5865-060-10
PUSH EXECUTE CHANGE
DISPLAY FAULT PAGE AND ENTER TEST DATA
PUSH FAULT PAGE ON THE CU
CHECK THAT THE TACJAM FAULT PAGE IS DISPLAYED
ENTER TEST DATA INTO THE APPROPRIATE FIELDS, REFER TO TM 32-5860-10. PUSH EXECUTE CHANGE
FAULT PAGE DISPLAYED
NO
H
SHEET 9
YES
CHECK FAULT PAGE MESSAGE FIELD FOR ERROR MESSAGES
REFER TO TM 32-5865-060-10
ANY ERROR MESSAGES
YES
NO
I
SHEET 3
57819-2

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 2 of 24)

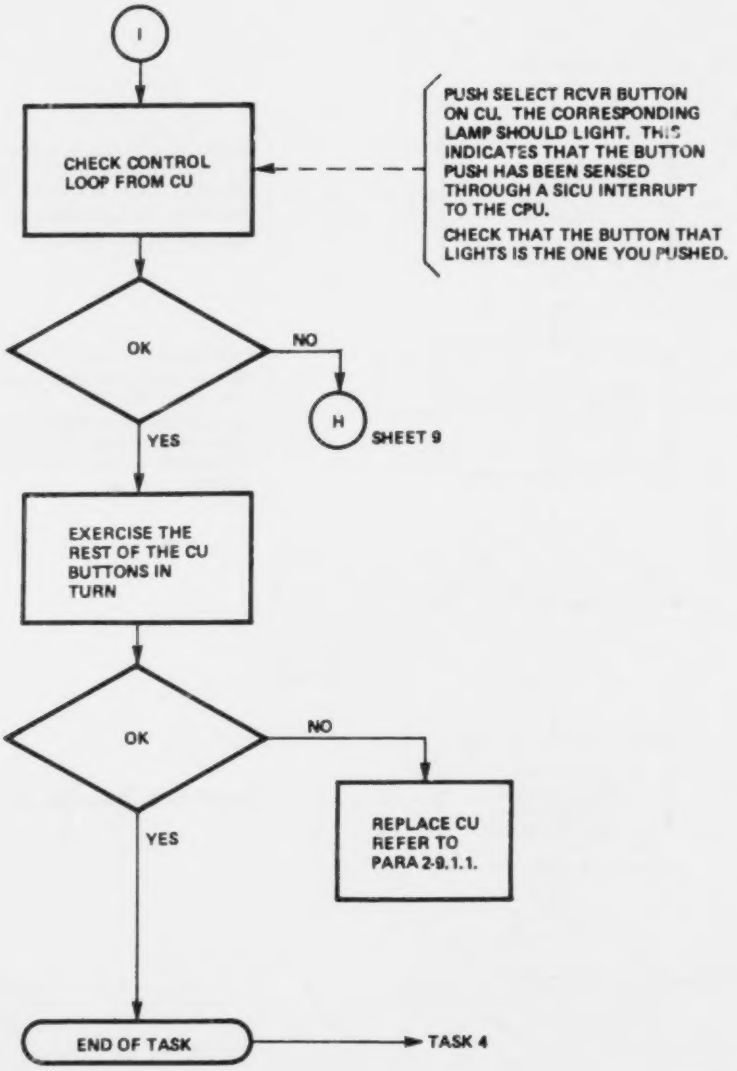

I
CHECK CONTROL LOOP FROM CU
PUSH SELECT RCVR BUTTON ON CU. THE CORRESPONDING LAMP SHOULD LIGHT. THIS INDICATES THAT THE BUTTON PUSH HAS BEEN SENSED THROUGH A SICU INTERRUPT TO THE CPU.
CHECK THAT THE BUTTON THAT LIGHTS IS THE ONE YOU PUSHED.
OK
NO
H
SHEET 9
YES
EXERCISE THE REST OF THE CU BUTTONS IN TURN
OK
NO
REPLACE CU REFER TO PARA 2-9.1.1.
YES
END OF TASK
TASK 4
57819-3

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 3 of 24)

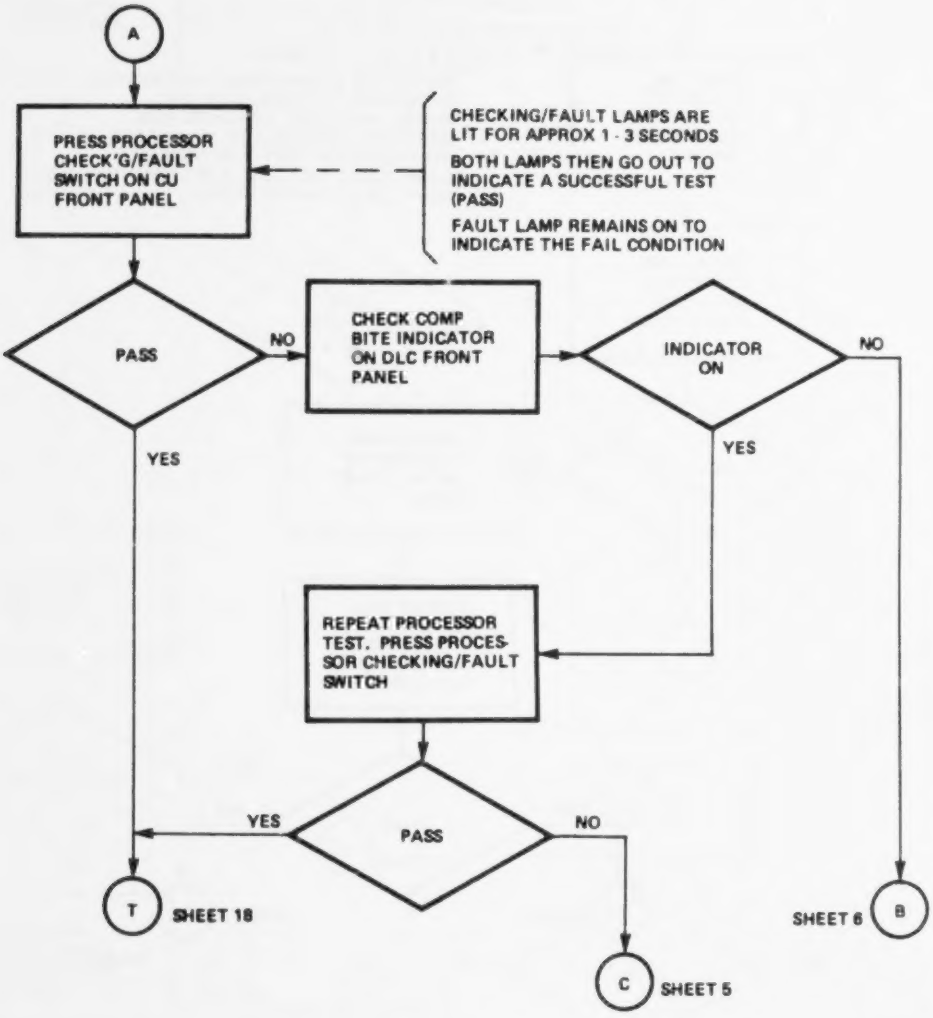
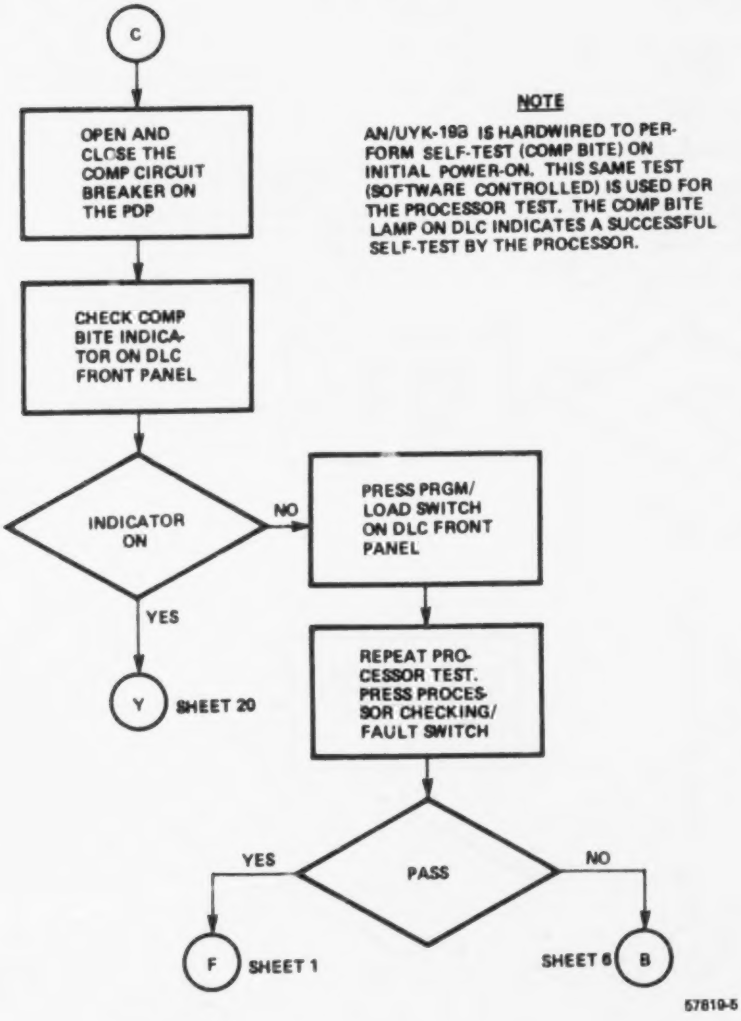

A
PRESS PROCESSOR CHECK'G/FAULT SWITCH ON CU FRONT PANEL
CHECKING/FAULT LAMPS ARE LIT FOR APPROX 1 - 3 SECONDS
BOTH LAMPS THEN GO OUT TO INDICATE A SUCCESSFUL TEST (PASS)
FAULT LAMP REMAINS ON TO INDICATE THE FAIL CONDITION
PASS
NO
CHECK COMP BITE INDICATOR ON DLC FRONT PANEL
INDICATOR ON
NO
YES
YES
REPEAT PROCESSOR TEST. PRESS PROCESSOR CHECKING/FAULT SWITCH
YES
PASS
NO
T
SHEET 18
C
SHEET 5
SHEET 6
B
57819-4

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 4 of 24)


C
OPEN AND CLOSE THE COMP CIRCUIT BREAKER ON THE PDP
CHECK COMP BITE INDICATOR ON DLC FRONT PANEL
INDICATOR ON
NO
YES
Y
SHEET 20
PRESS PRGM/LOAD SWITCH ON DLC FRONT PANEL
REPEAT PROCESSOR TEST. PRESS PROCESSOR CHECKING/FAULT SWITCH
PASS
YES
NO
F
SHEET 1
SHEET 6
B
57819-5

NOTE

AN/UYK-19B IS HARDWIRED TO PERFORM SELF-TEST (COMP BITE) ON INITIAL POWER-ON. THIS SAME TEST (SOFTWARE CONTROLLED) IS USED FOR THE PROCESSOR TEST. THE COMP BITE LAMP ON DLC INDICATES A SUCCESSFUL SELF-TEST BY THE PROCESSOR.

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 5 of 24)

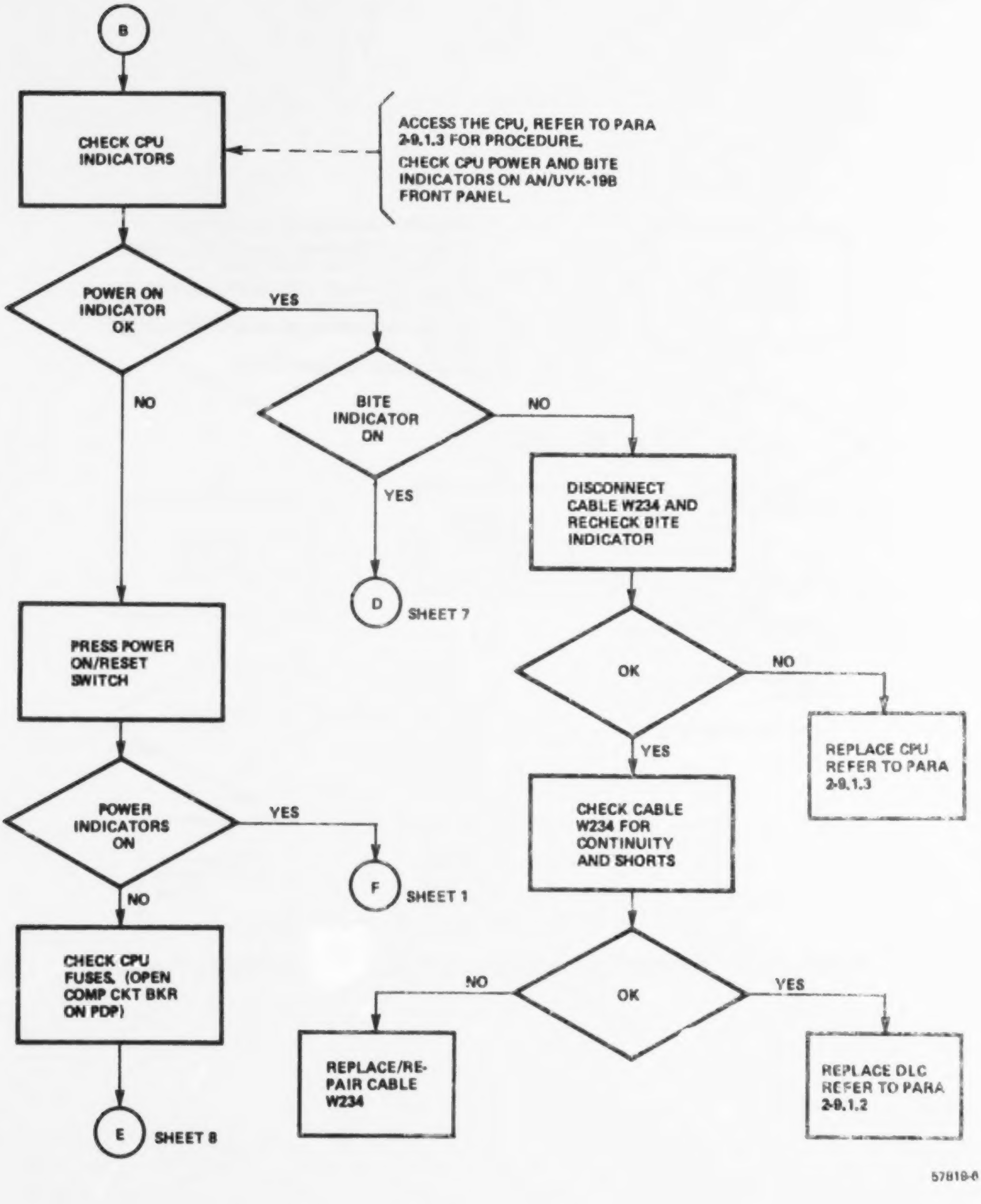

B
CHECK CPU INDICATORS
ACCESS THE CPU, REFER TO PARA 2-9.1.3 FOR PROCEDURE.
CHECK CPU POWER AND BITE INDICATORS ON AN/UYK-19B FRONT PANEL.
POWER ON INDICATOR OK
YES
NO
BITE INDICATOR ON
NO
YES
D SHEET 7
DISCONNECT CABLE W234 AND RECHECK BITE INDICATOR
OK
NO
YES
REPLACE CPU REFER TO PARA 2-9.1.3
CHECK CABLE W234 FOR CONTINUITY AND SHORTS
OK
NO
YES
REPLACE/REPAIR CABLE W234
REPLACE DLC REFER TO PARA 2-9.1.2
PRESS POWER ON/RESET SWITCH
POWER INDICATORS ON
YES
F SHEET 1
NO
CHECK CPU FUSES. (OPEN COMP CKT BKR ON PDP)
E SHEET 8
57818-6

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 6 of 24)

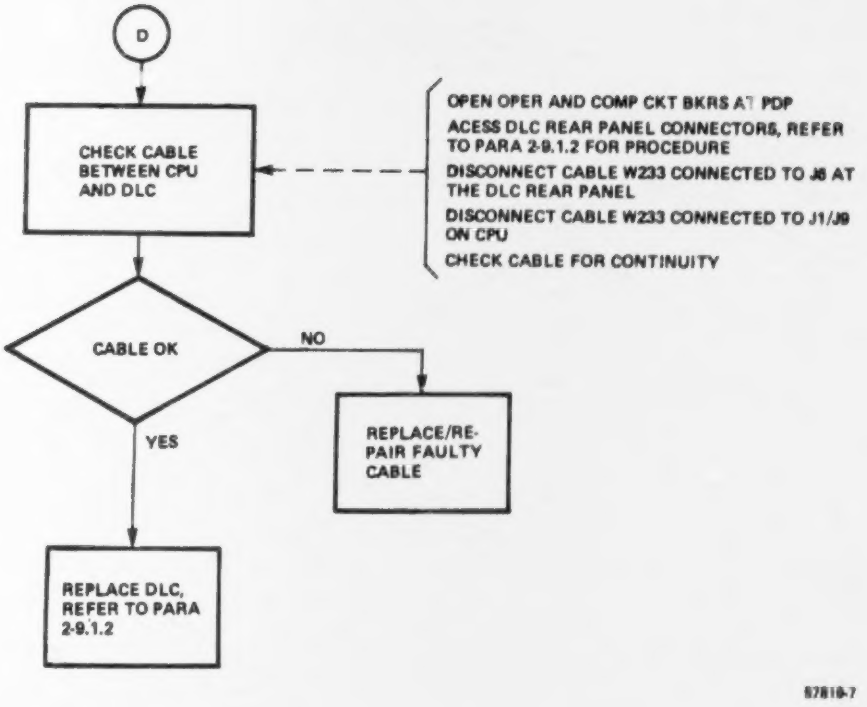
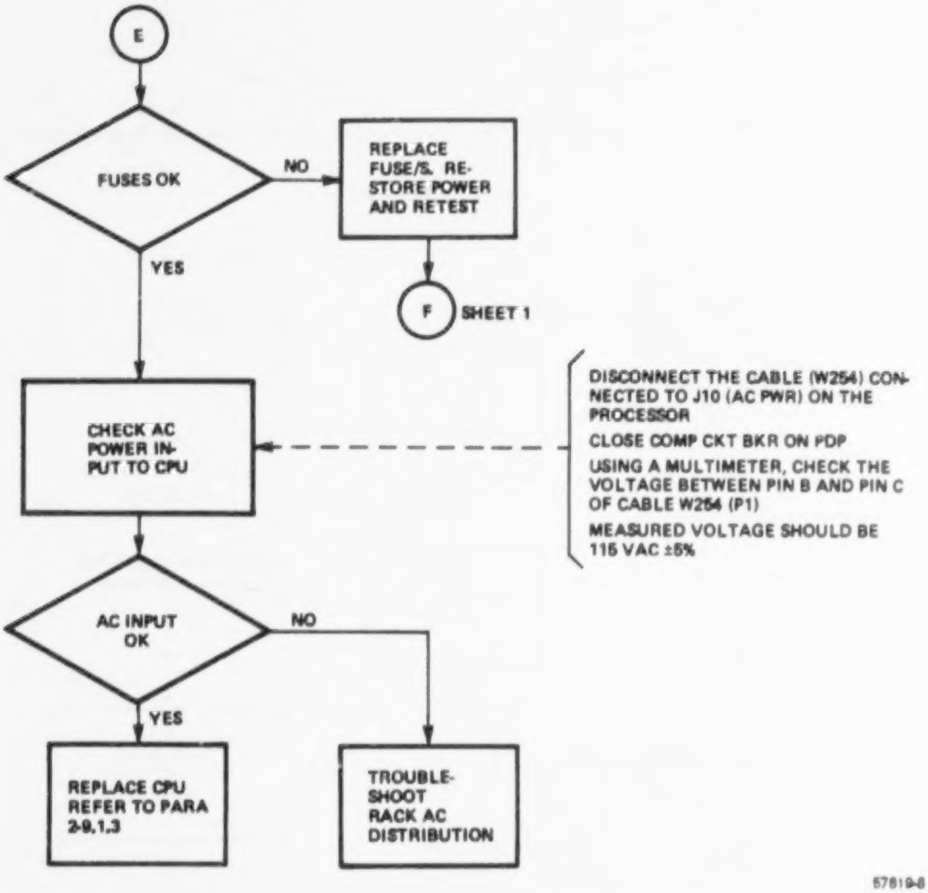

D
CHECK CABLE BETWEEN CPU AND DLC
OPEN OPER AND COMP CKT BKRS AT PDP
ACESS DLC REAR PANEL CONNECTORS, REFER TO PARA 2-9.1.2 FOR PROCEDURE
DISCONNECT CABLE W233 CONNECTED TO J8 AT THE DLC REAR PANEL
DISCONNECT CABLE W233 CONNECTED TO J1/J9 ON CPU
CHECK CABLE FOR CONTINUITY
CABLE OK
NO
REPLACE/REPAIR FAULTY CABLE
YES
REPLACE DLC, REFER TO PARA 2-9.1.2
87810-7

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 7 of 24)


E
FUSES OK
NO
REPLACE FUSE/S. RESTORE POWER AND RETEST
YES
F
SHEET 1
CHECK AC POWER INPUT TO CPU
AC INPUT OK
NO
YES
REPLACE CPU REFER TO PARA 2-9.1.3
TROUBLESHOOT RACK AC DISTRIBUTION
57819-8

DISCONNECT THE CABLE (W254) CONNECTED TO J10 (AC PWR) ON THE PROCESSOR

CLOSE COMP CKT BKR ON PDP

USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN B AND PIN C OF CABLE W254 (P1)

MEASURED VOLTAGE SHOULD BE 115 VAC ±5%

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 8 of 24)

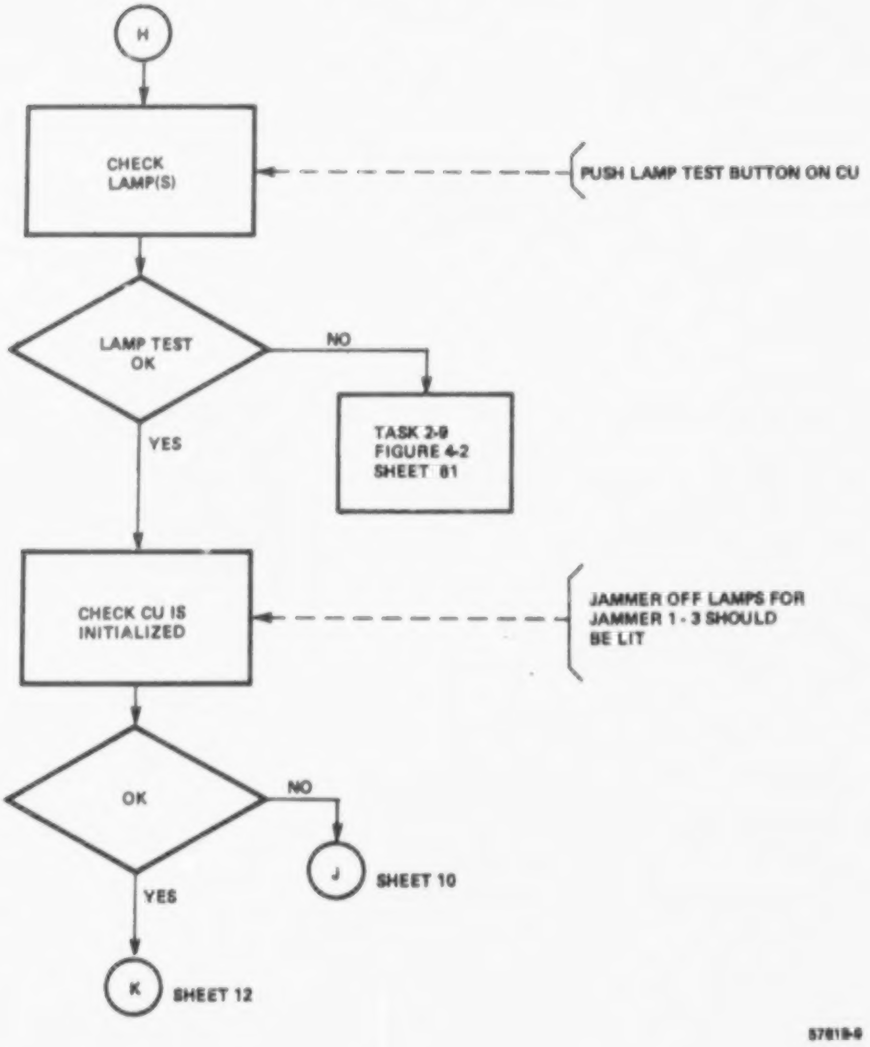
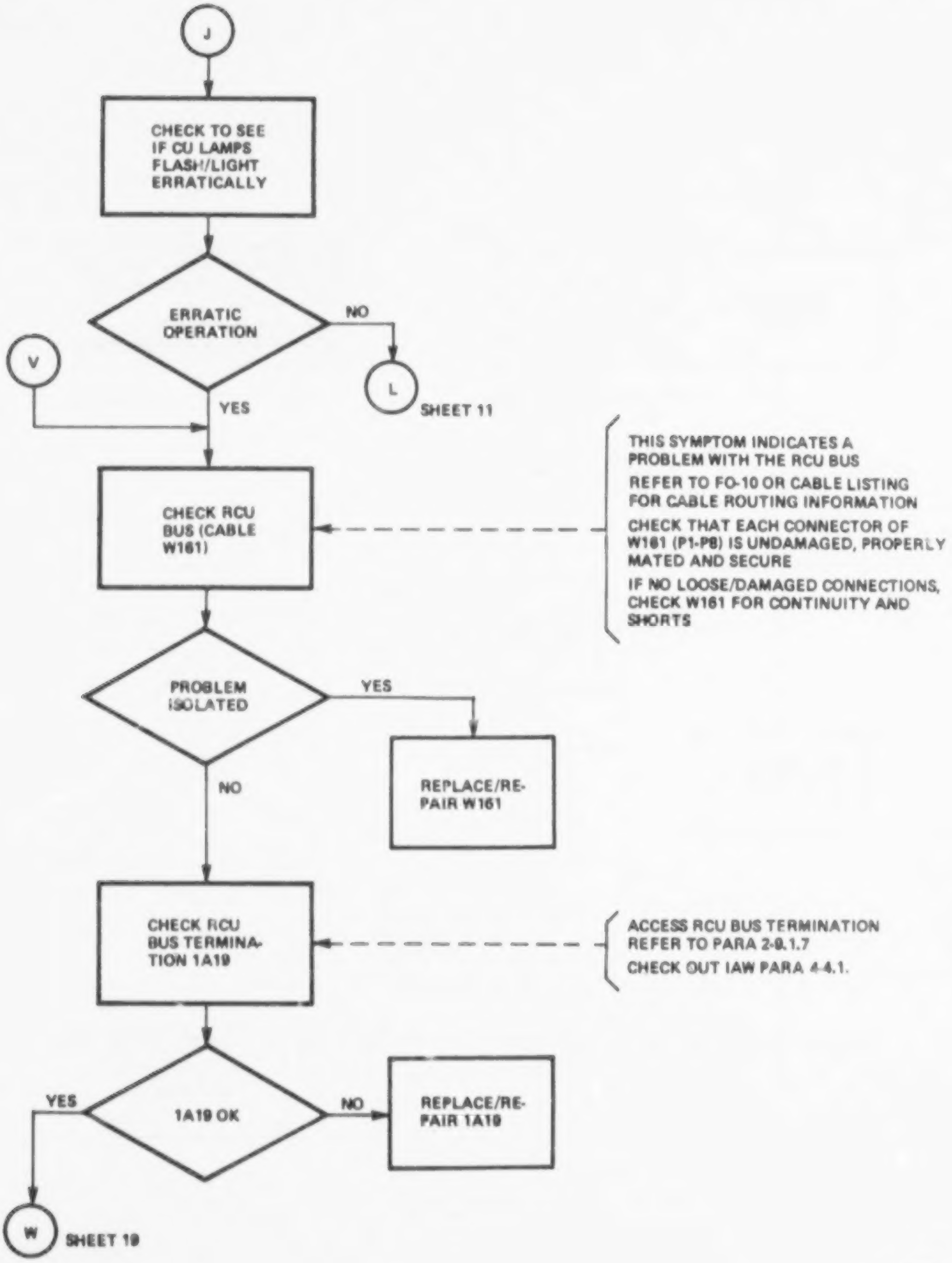


Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 9 of 24)



THIS SYMPTOM INDICATES A PROBLEM WITH THE RCU BUS

REFER TO FO-10 OR CABLE LISTING FOR CABLE ROUTING INFORMATION

CHECK THAT EACH CONNECTOR OF W161 (P1-P8) IS UNDAMAGED, PROPERLY MATED AND SECURE

IF NO LOOSE/DAMAGED CONNECTIONS, CHECK W161 FOR CONTINUITY AND SHORTS

ACCESS RCU BUS TERMINATION REFER TO PARA 2-9.1.7

CHECK OUT IAW PARA 4-4.1.

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 10 of 24)

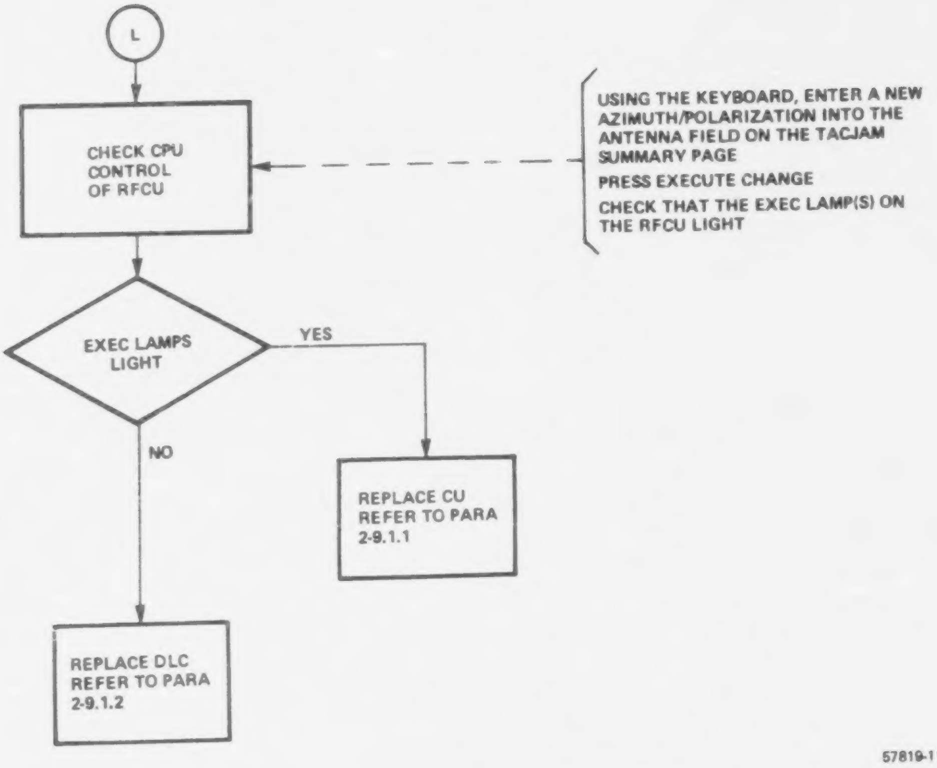
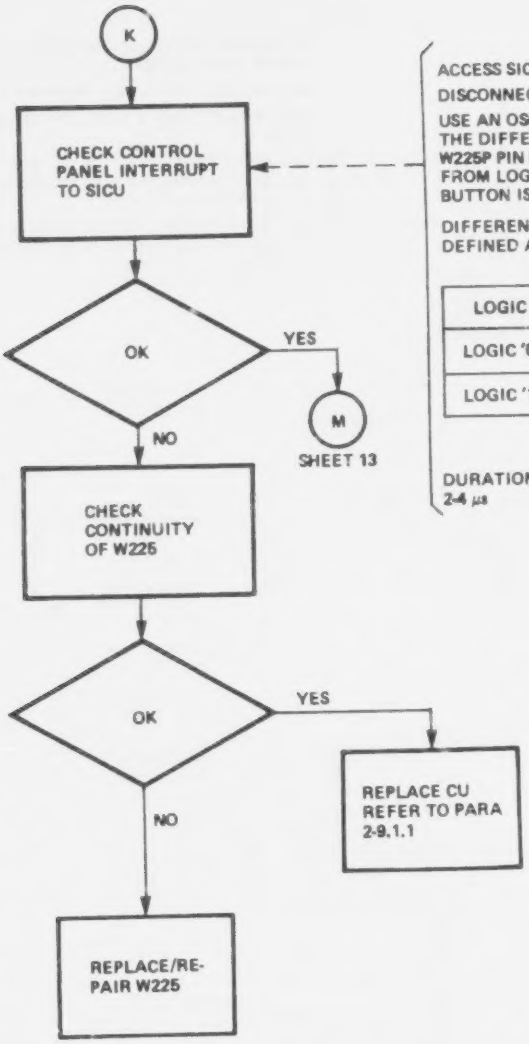

L
CHECK CPU CONTROL OF RFCU
USING THE KEYBOARD, ENTER A NEW AZIMUTH/POLARIZATION INTO THE ANTENNA FIELD ON THE TACJAM SUMMARY PAGE
PRESS EXECUTE CHANGE
CHECK THAT THE EXEC LAMP(S) ON THE RFCU LIGHT
EXEC LAMPS LIGHT
YES
NO
REPLACE CU REFER TO PARA 2-9.1.1
REPLACE DLC REFER TO PARA 2-9.1.2
57819-11

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 11 of 24)



ACCESS SICU REAR PANEL, PARA 4-6.3.1

DISCONNECT CABLE W225 FROM J11

USE AN OSCILLOSCOPE TO CHECK THAT THE DIFFERENTIAL SIGNAL BETWEEN W225P PIN b (+) AND PIN c (–) CHANGES FROM LOGIC '0' TO LOGIC '1' WHEN A BUTTON IS PUSHED ON THE CU

DIFFERENTIAL LOGIC SIGNALS ARE DEFINED AS FOLLOWS:

LOGIC	PIN b	PIN c
LOGIC '0'	0.0 TO 0.4V	2.4 TO 5.5V
LOGIC '1'	2.4 TO 5.5V	0.0 TO 0.4V

NOTE

DURATION APPROXIMATELY 2-4 μs

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 12 of 24)

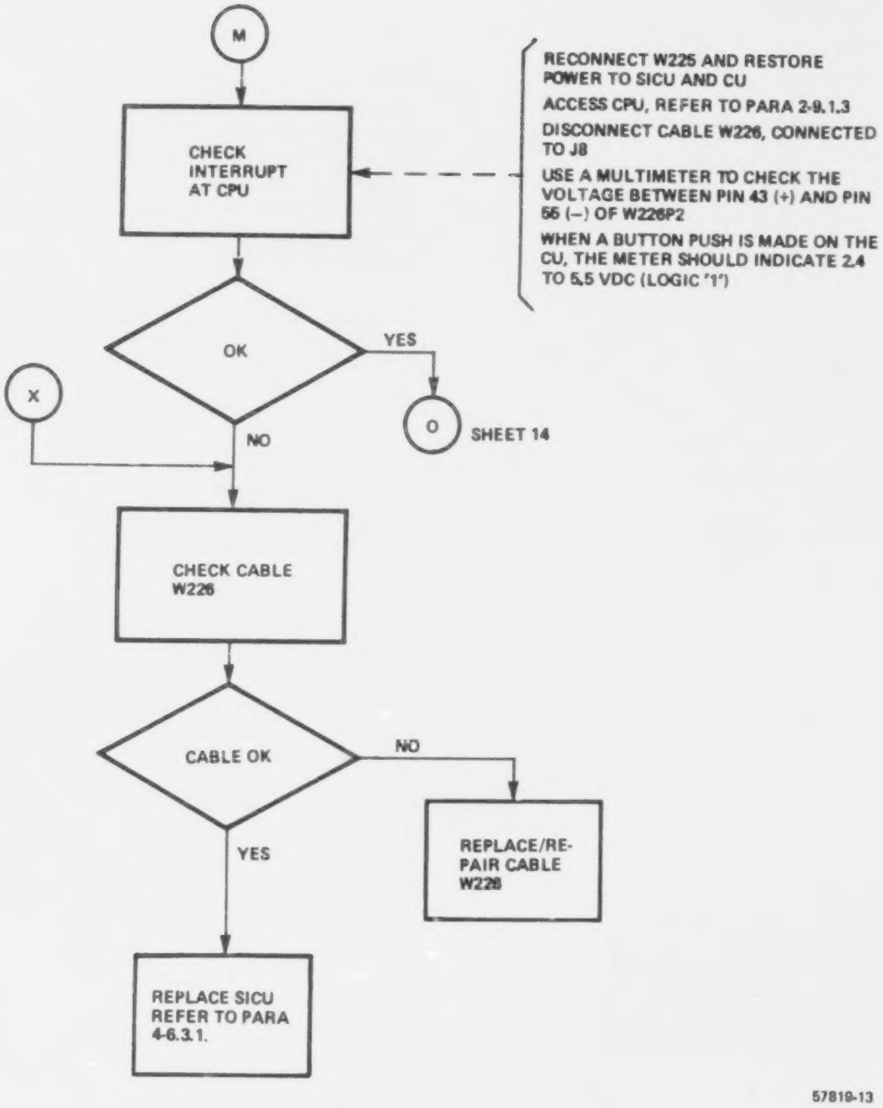
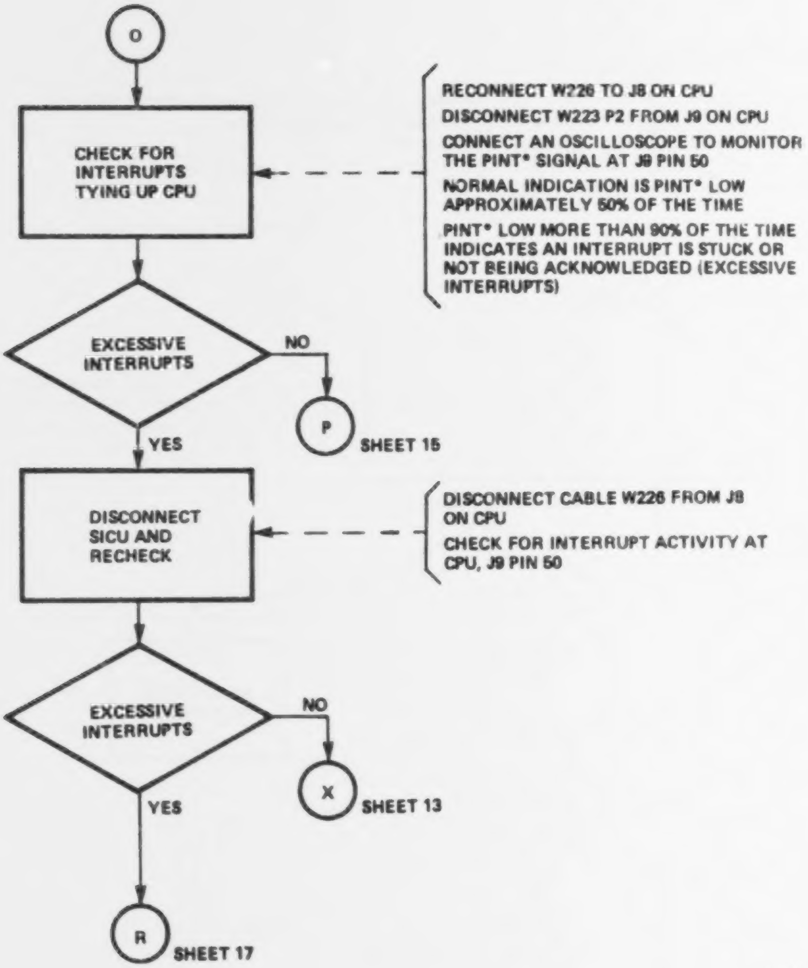

M
CHECK INTERRUPT AT CPU
RECONNECT W225 AND RESTORE POWER TO SICU AND CU
ACCESS CPU, REFER TO PARA 2-9.1.3
DISCONNECT CABLE W226, CONNECTED TO J8
USE A MULTIMETER TO CHECK THE VOLTAGE BETWEEN PIN 43 (+) AND PIN 55 (–) OF W226P2
WHEN A BUTTON PUSH IS MADE ON THE CU, THE METER SHOULD INDICATE 2.4 TO 5.5 VDC (LOGIC '1')
OK
YES
O
SHEET 14
X
NO
CHECK CABLE W226
CABLE OK
NO
REPLACE/REPAIR CABLE W226
YES
REPLACE SICU REFER TO PARA 4-6.3.1.
57819-13

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 13 of 24)



RECONNECT W226 TO J8 ON CPU

DISCONNECT W223 P2 FROM J9 ON CPU

CONNECT AN OSCILLOSCOPE TO MONITOR THE PINT* SIGNAL AT J9 PIN 50

NORMAL INDICATION IS PINT* LOW APPROXIMATELY 50% OF THE TIME

PINT* LOW MORE THAN 90% OF THE TIME INDICATES AN INTERRUPT IS STUCK OR NOT BEING ACKNOWLEDGED (EXCESSIVE INTERRUPTS)

DISCONNECT CABLE W226 FROM J8 ON CPU

CHECK FOR INTERRUPT ACTIVITY AT CPU, J9 PIN 50

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 14 of 24)

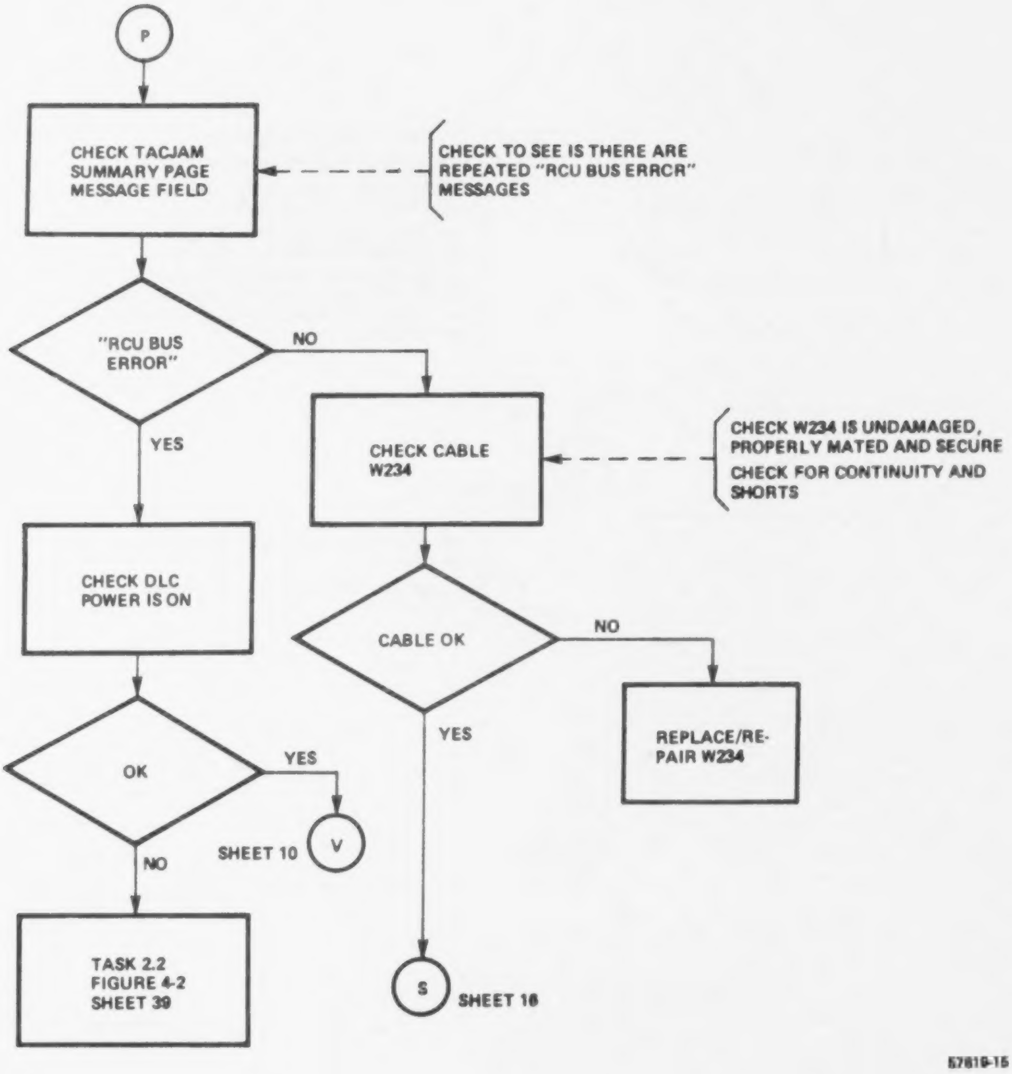

P
CHECK TACJAM SUMMARY PAGE MESSAGE FIELD
CHECK TO SEE IS THERE ARE REPEATED "RCU BUS ERRCR" MESSAGES
"RCU BUS ERROR"
NO
YES
CHECK CABLE W234
CHECK W234 IS UNDAMAGED, PROPERLY MATED AND SECURE
CHECK FOR CONTINUITY AND SHORTS
CHECK DLC POWER IS ON
CABLE OK
NO
REPLACE/RE-PAIR W234
OK
YES
SHEET 10
V
NO
YES
TASK 2.2 FIGURE 4-2 SHEET 39
S
SHEET 16
57619-15

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 15 of 24)

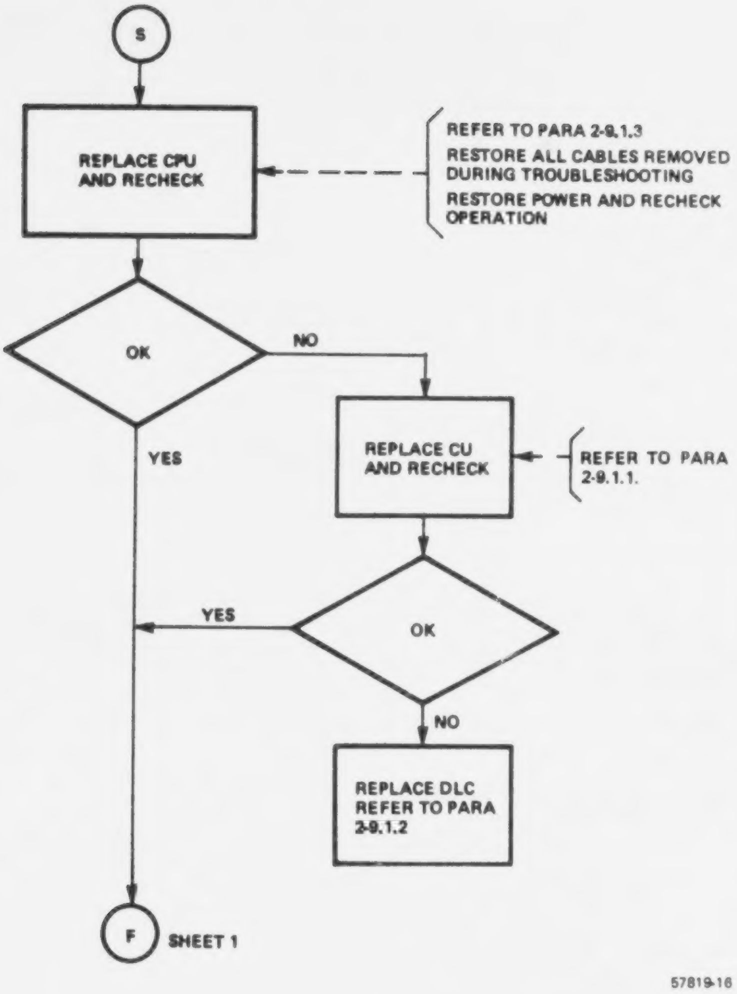


Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 16 of 24)

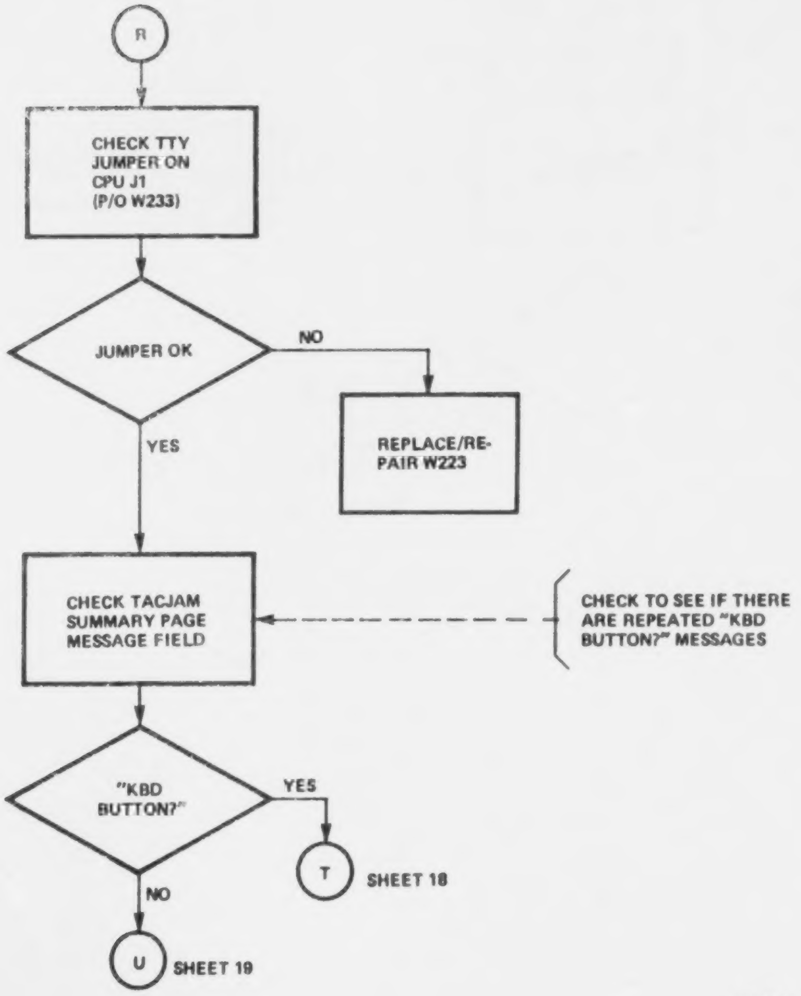

R
CHECK TTY JUMPER ON CPU J1 (P/O W233)
JUMPER OK
NO
REPLACE/RE-PAIR W223
YES
CHECK TACJAM SUMMARY PAGE MESSAGE FIELD
CHECK TO SEE IF THERE ARE REPEATED "KBD BUTTON?" MESSAGES
"KBD BUTTON?"
YES
T
SHEET 18
NO
U
SHEET 19
57819-17

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 17 of 24)

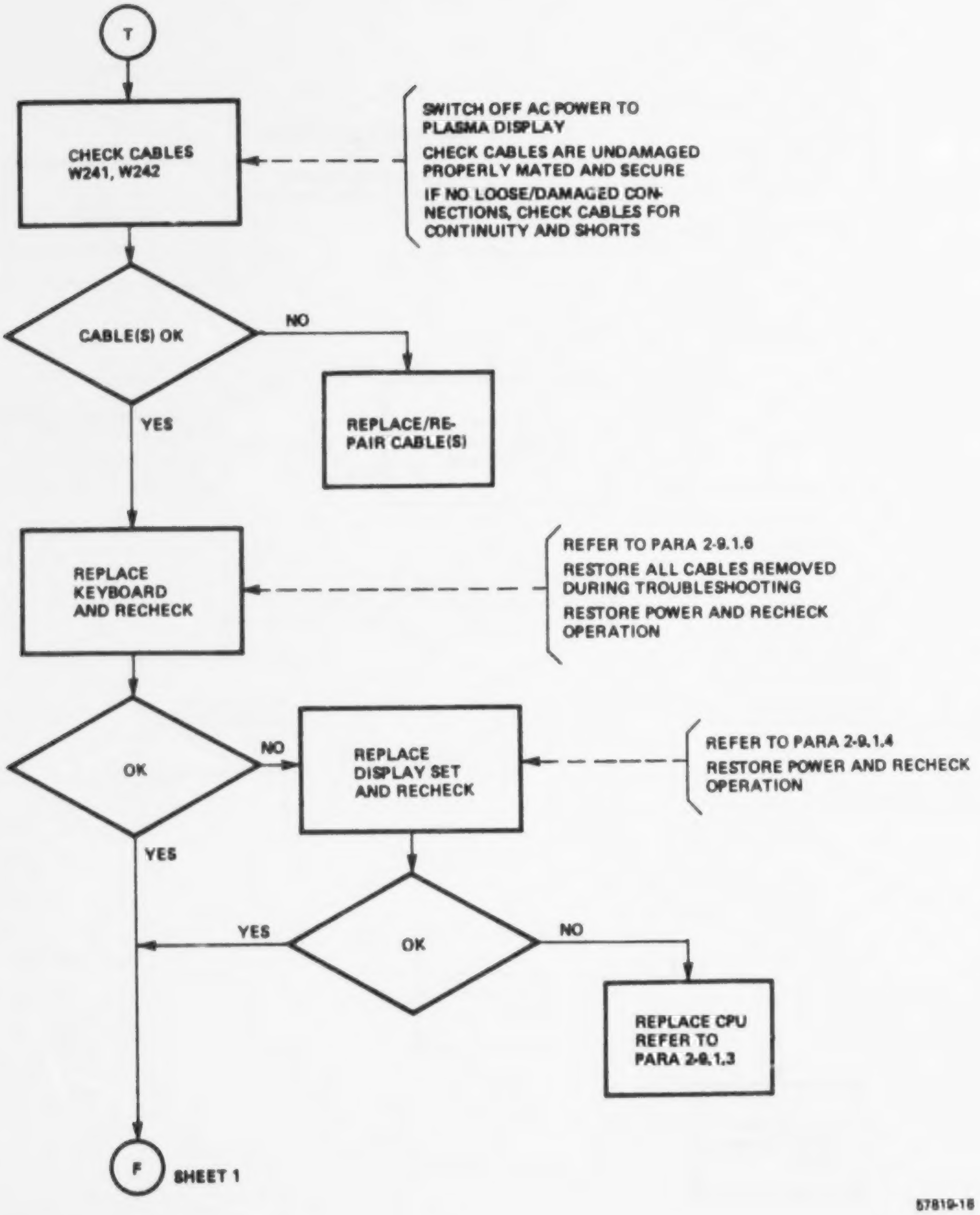

T
CHECK CABLES W241, W242
SWITCH OFF AC POWER TO PLASMA DISPLAY
CHECK CABLES ARE UNDAMAGED PROPERLY MATED AND SECURE
IF NO LOOSE/DAMAGED CONNECTIONS, CHECK CABLES FOR CONTINUITY AND SHORTS
CABLE(S) OK
NO
YES
REPLACE/REPAIR CABLE(S)
REPLACE KEYBOARD AND RECHECK
REFER TO PARA 2-9.1.6
RESTORE ALL CABLES REMOVED DURING TROUBLESHOOTING
RESTORE POWER AND RECHECK OPERATION
OK
NO
YES
REPLACE DISPLAY SET AND RECHECK
REFER TO PARA 2-9.1.4
RESTORE POWER AND RECHECK OPERATION
OK
YES
NO
REPLACE CPU REFER TO PARA 2-9.1.3
F
SHEET 1
57819-18

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 18 of 24)

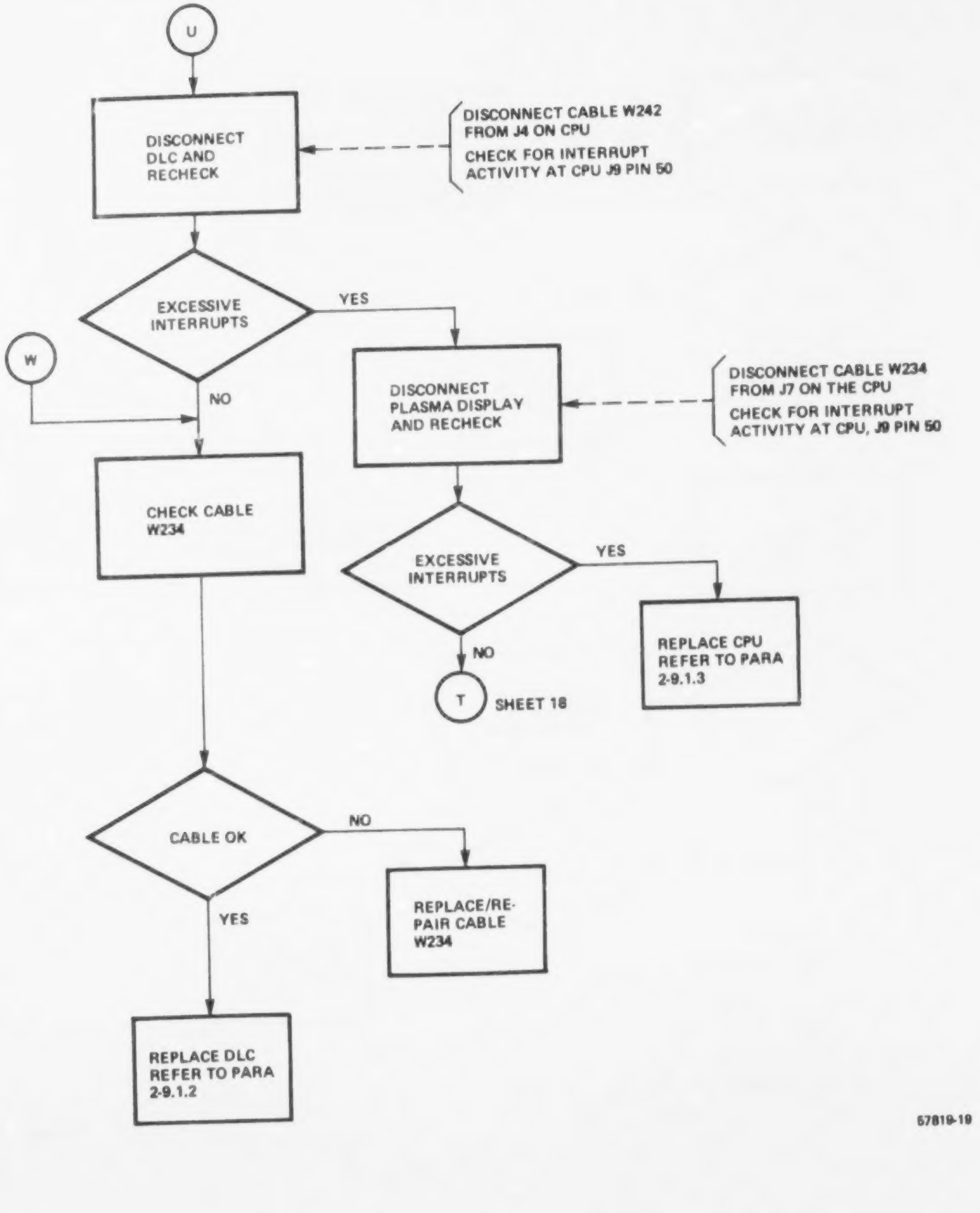

U
DISCONNECT DLC AND RECHECK
DISCONNECT CABLE W242 FROM J4 ON CPU
CHECK FOR INTERRUPT ACTIVITY AT CPU J9 PIN 50
EXCESSIVE INTERRUPTS
YES
NO
W
DISCONNECT PLASMA DISPLAY AND RECHECK
DISCONNECT CABLE W234 FROM J7 ON THE CPU
CHECK FOR INTERRUPT ACTIVITY AT CPU, J9 PIN 50
CHECK CABLE W234
EXCESSIVE INTERRUPTS
YES
NO
REPLACE CPU REFER TO PARA 2-9.1.3
T
SHEET 18
CABLE OK
NO
YES
REPLACE/REPAIR CABLE W234
REPLACE DLC REFER TO PARA 2-9.1.2
57819-19

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 19 of 24)

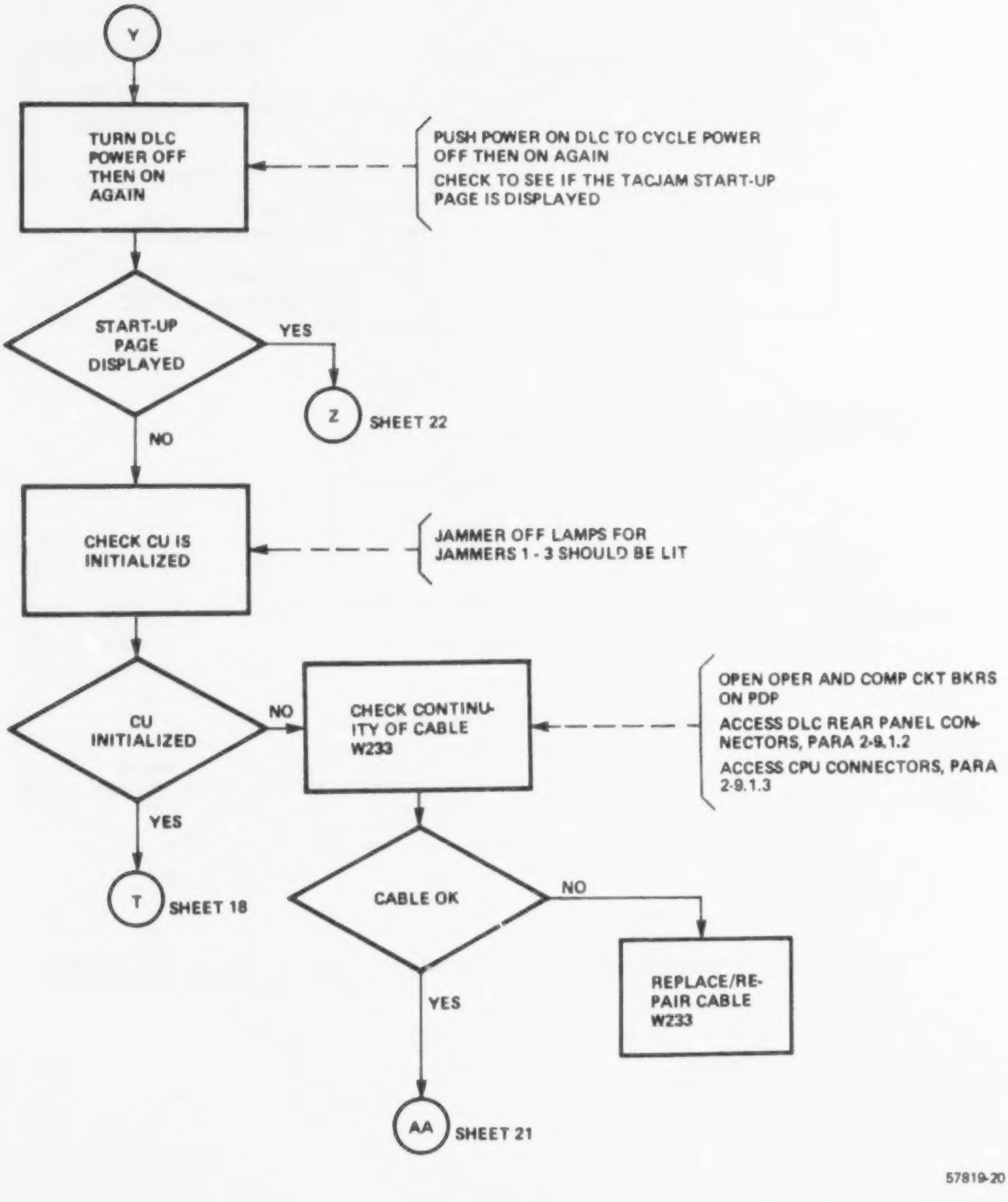

Y
TURN DLC POWER OFF THEN ON AGAIN
PUSH POWER ON DLC TO CYCLE POWER OFF THEN ON AGAIN
CHECK TO SEE IF THE TACJAM START-UP PAGE IS DISPLAYED
START-UP PAGE DISPLAYED
YES
Z
SHEET 22
NO
CHECK CU IS INITIALIZED
JAMMER OFF LAMPS FOR JAMMERS 1 - 3 SHOULD BE LIT
CU INITIALIZED
NO
CHECK CONTINUITY OF CABLE W233
OPEN OPER AND COMP CKT BKRS ON PDP
ACCESS DLC REAR PANEL CONNECTORS, PARA 2-9.1.2
ACCESS CPU CONNECTORS, PARA 2-9.1.3
YES
T
SHEET 18
CABLE OK
NO
REPLACE/REPAIR CABLE W233
YES
AA
SHEET 21
57819-20

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 20 of 24)

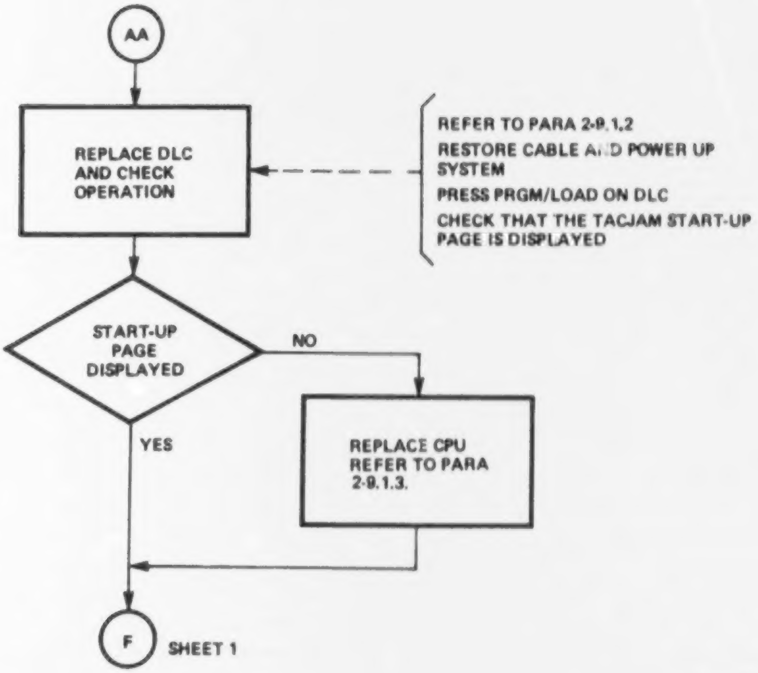

AA
REPLACE DLC AND CHECK OPERATION
REFER TO PARA 2-9.1.2
RESTORE CABLE AND POWER UP SYSTEM
PRESS PRGM/LOAD ON DLC
CHECK THAT THE TACJAM START-UP PAGE IS DISPLAYED
START-UP PAGE DISPLAYED
NO
YES
REPLACE CPU REFER TO PARA 2-9.1.3.
F
SHEET 1
57819-21

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 21 of 24)

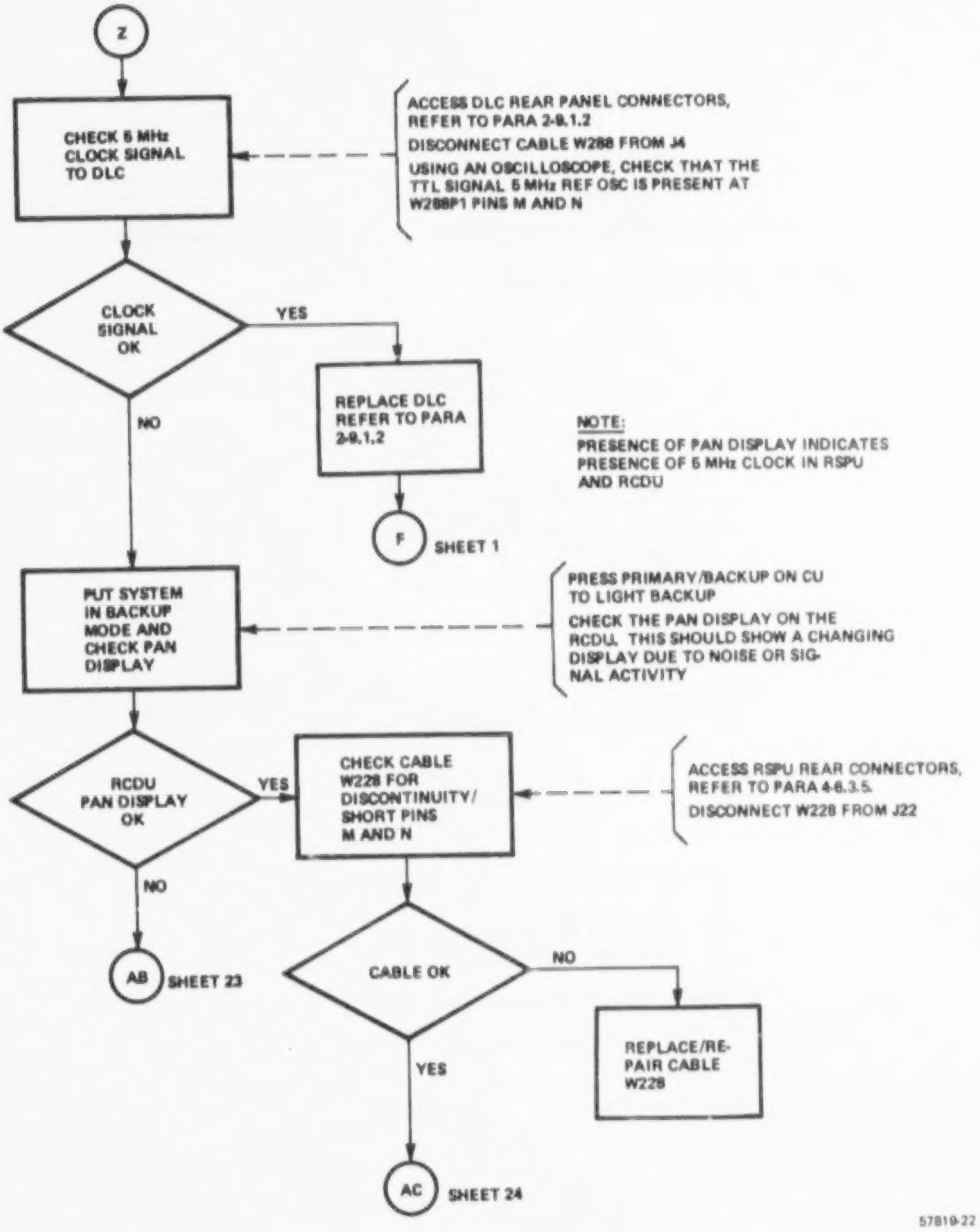

Z
CHECK 5 MHz CLOCK SIGNAL TO DLC
ACCESS DLC REAR PANEL CONNECTORS, REFER TO PARA 2-9.1.2
DISCONNECT CABLE W288 FROM J4
USING AN OSCILLOSCOPE, CHECK THAT THE TTL SIGNAL 5 MHz REF OSC IS PRESENT AT W288P1 PINS M AND N
CLOCK SIGNAL OK
YES
REPLACE DLC REFER TO PARA 2-9.1.2
F
SHEET 1
NOTE:
PRESENCE OF PAN DISPLAY INDICATES PRESENCE OF 5 MHz CLOCK IN RSPU AND RCDU
NO
PUT SYSTEM IN BACKUP MODE AND CHECK PAN DISPLAY
PRESS PRIMARY/BACKUP ON CU TO LIGHT BACKUP
CHECK THE PAN DISPLAY ON THE RCDU. THIS SHOULD SHOW A CHANGING DISPLAY DUE TO NOISE OR SIGNAL ACTIVITY
RCDU PAN DISPLAY OK
YES
CHECK CABLE W228 FOR DISCONTINUITY/SHORT PINS M AND N
ACCESS RSPU REAR CONNECTORS, REFER TO PARA 4-6.3.5.
DISCONNECT W228 FROM J22
NO
AB
SHEET 23
CABLE OK
NO
REPLACE/REPAIR CABLE W228
YES
AC
SHEET 24
57819-22

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 22 of 24)

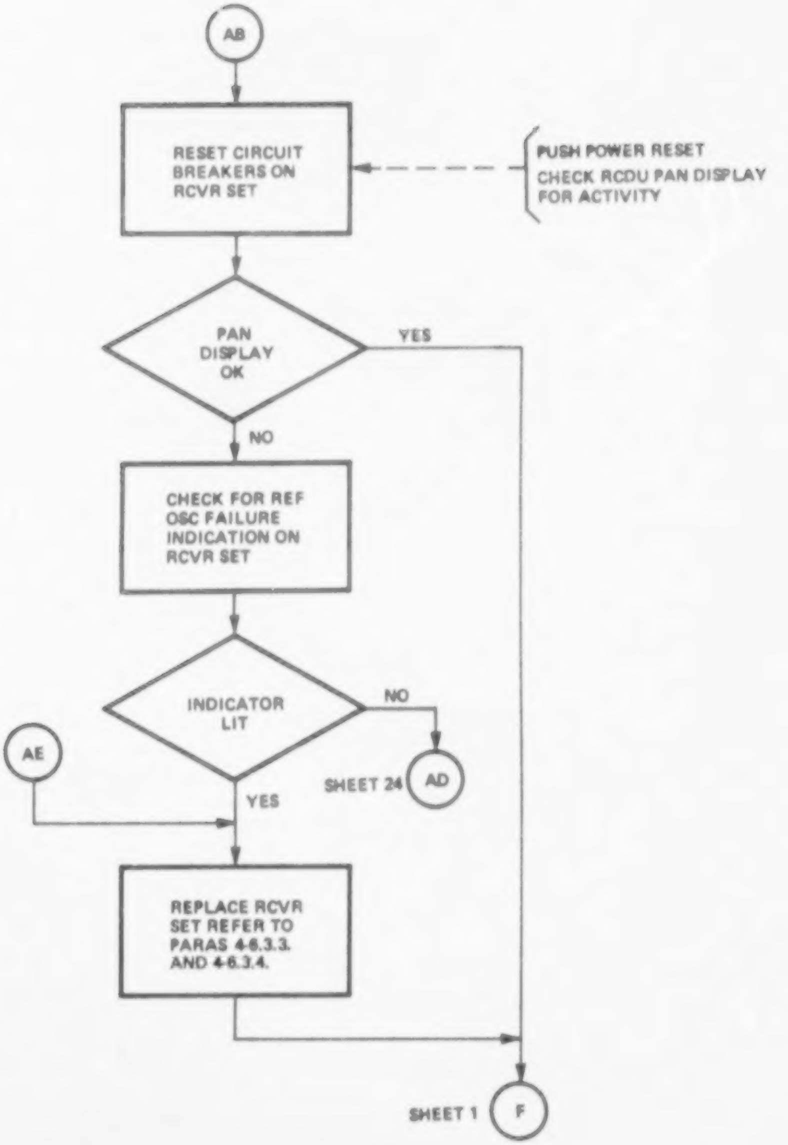

AB
RESET CIRCUIT BREAKERS ON RCVR SET
PUSH POWER RESET
CHECK RCDU PAN DISPLAY FOR ACTIVITY
PAN DISPLAY OK
YES
NO
CHECK FOR REF OSC FAILURE INDICATION ON RCVR SET
INDICATOR LIT
NO
SHEET 24
AD
AE
YES
REPLACE RCVR SET REFER TO PARAS 4-6.3.3. AND 4-6.3.4.
SHEET 1
F
57819-23

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 23 of 24)

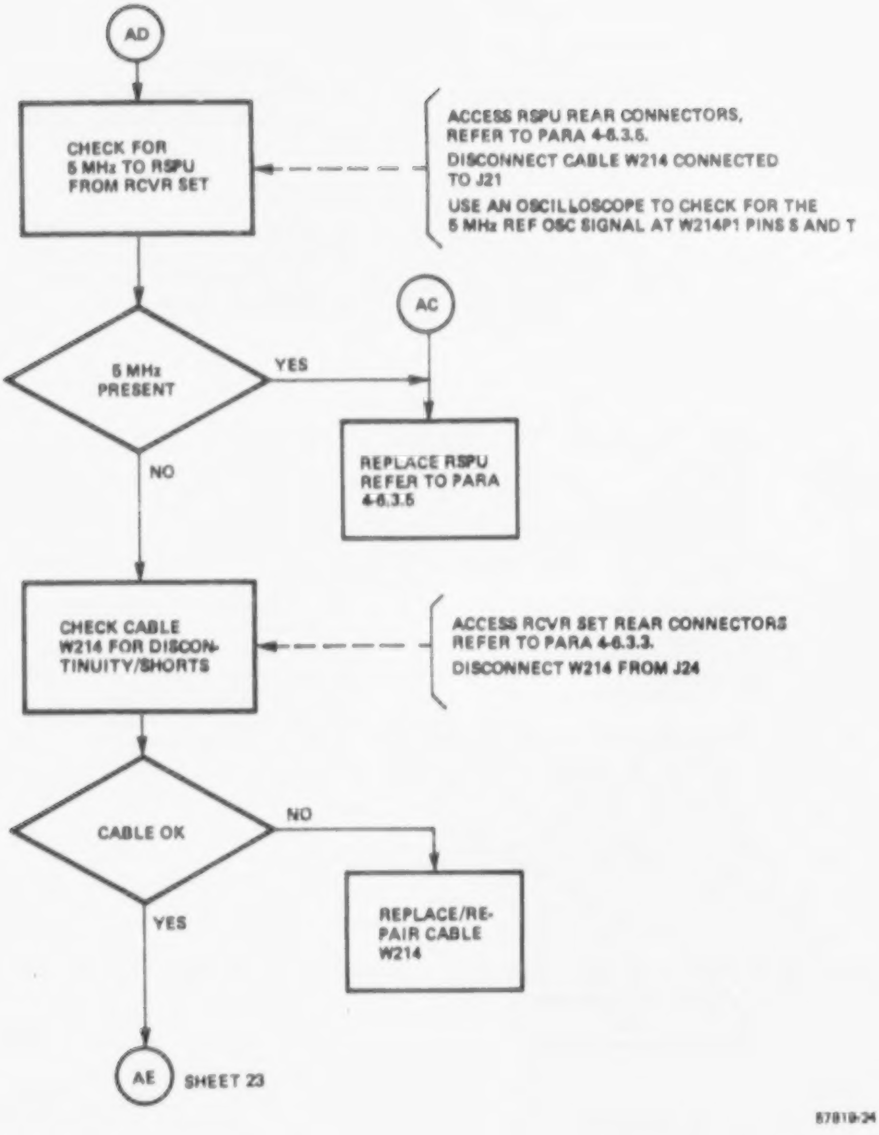

AD
CHECK FOR 5 MHz TO RSPU FROM RCVR SET
ACCESS RSPU REAR CONNECTORS, REFER TO PARA 4-6.3.5.
DISCONNECT CABLE W214 CONNECTED TO J21
USE AN OSCILLOSCOPE TO CHECK FOR THE 5 MHz REF OSC SIGNAL AT W214P1 PINS S AND T
AC
5 MHz PRESENT
YES
NO
REPLACE RSPU REFER TO PARA 4-6.3.5
CHECK CABLE W214 FOR DISCONTINUITY/SHORTS
ACCESS RCVR SET REAR CONNECTORS REFER TO PARA 4-6.3.3.
DISCONNECT W214 FROM J24
CABLE OK
NO
YES
REPLACE/REPAIR CABLE W214
AE
SHEET 23
87819-24

Figure 4-3. System Troubleshooting FLFC, Task 3 (Sheet 24 of 24)

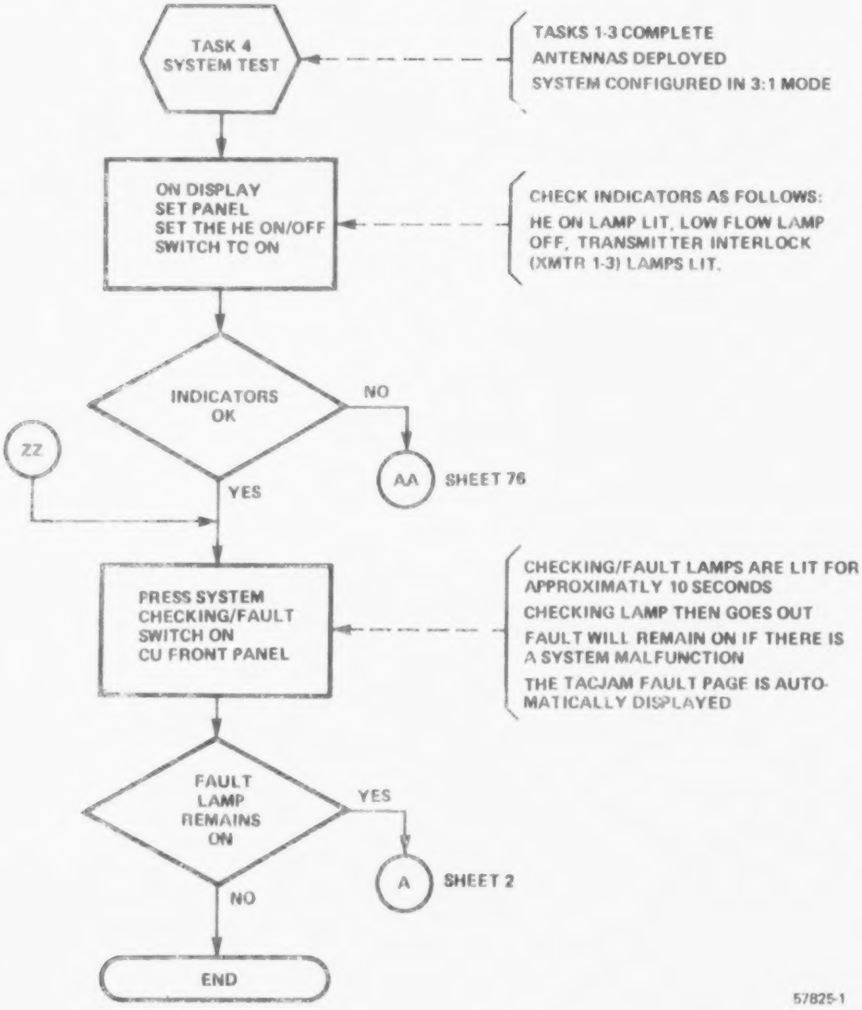
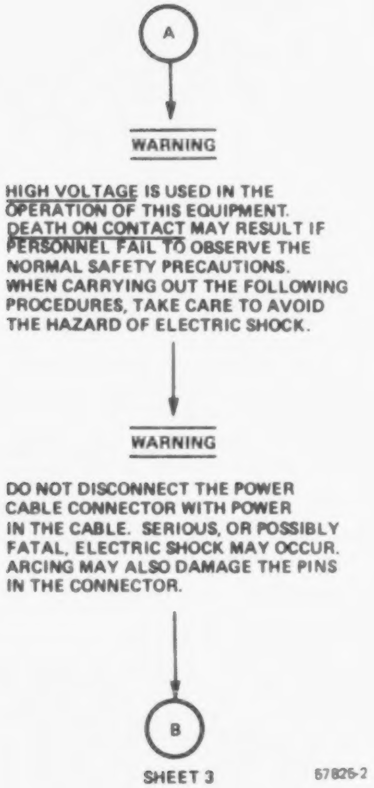

TASK 4
SYSTEM TEST
TASKS 1-3 COMPLETE
ANTENNAS DEPLOYED
SYSTEM CONFIGURED IN 3:1 MODE
ON DISPLAY
SET PANEL
SET THE HE ON/OFF
SWITCH TO ON
CHECK INDICATORS AS FOLLOWS:
HE ON LAMP LIT, LOW FLOW LAMP OFF, TRANSMITTER INTERLOCK (XMTR 1-3) LAMPS LIT.
INDICATORS
OK
NO
AA
SHEET 76
ZZ
YES
PRESS SYSTEM
CHECKING/FAULT
SWITCH ON
CU FRONT PANEL
CHECKING/FAULT LAMPS ARE LIT FOR APPROXIMATLY 10 SECONDS
CHECKING LAMP THEN GOES OUT
FAULT WILL REMAIN ON IF THERE IS A SYSTEM MALFUNCTION
THE TACJAM FAULT PAGE IS AUTOMATICALLY DISPLAYED
FAULT
LAMP
REMAINS
ON
YES
A
SHEET 2
NO
END
57825-1

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 1 of 93)



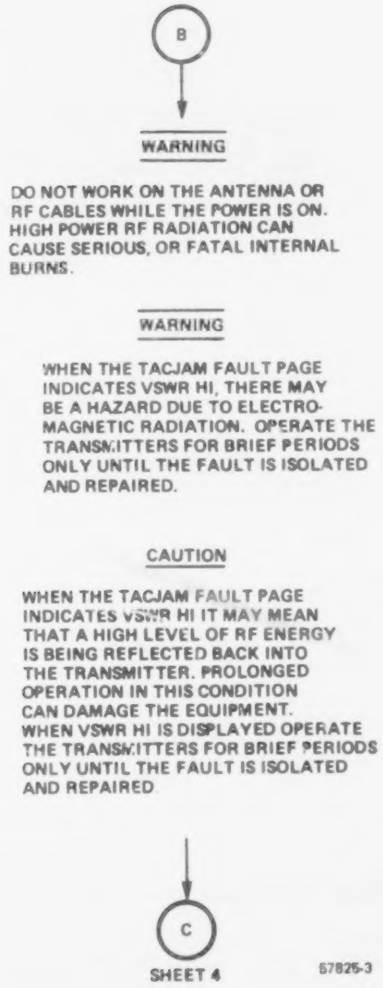
WARNING

HIGH VOLTAGE IS USED IN THE OPERATION OF THIS EQUIPMENT. DEATH ON CONTACT MAY RESULT IF PERSONNEL FAIL TO OBSERVE THE NORMAL SAFETY PRECAUTIONS. WHEN CARRYING OUT THE FOLLOWING PROCEDURES, TAKE CARE TO AVOID THE HAZARD OF ELECTRIC SHOCK.

WARNING

DO NOT DISCONNECT THE POWER CABLE CONNECTOR WITH POWER IN THE CABLE. SERIOUS, OR POSSIBLY FATAL, ELECTRIC SHOCK MAY OCCUR. ARCING MAY ALSO DAMAGE THE PINS IN THE CONNECTOR.

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 2 of 93)



WARNING

DO NOT WORK ON THE ANTENNA OR RF CABLES WHILE THE POWER IS ON. HIGH POWER RF RADIATION CAN CAUSE SERIOUS, OR FATAL INTERNAL BURNS.

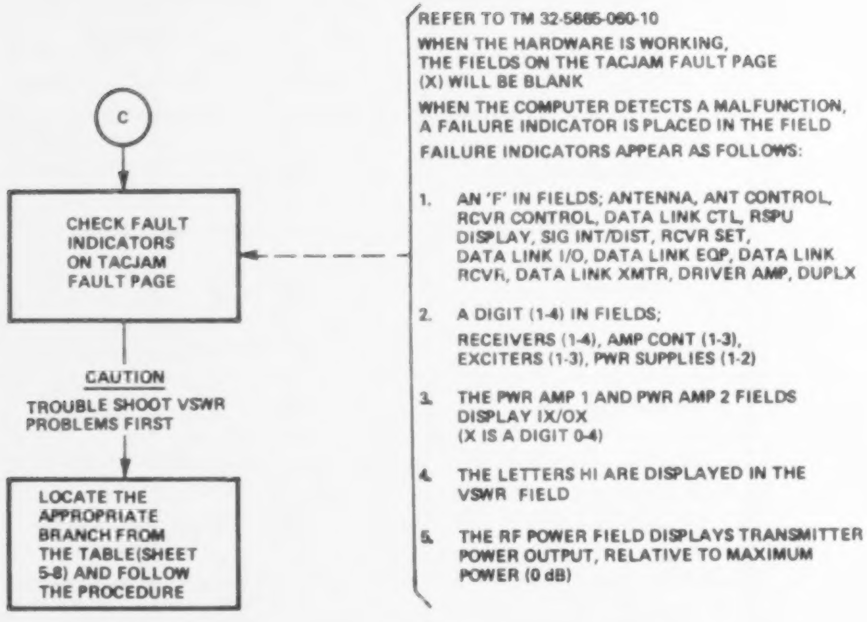
WARNING

WHEN THE TACJAM FAULT PAGE INDICATES VSWR HI, THERE MAY BE A HAZARD DUE TO ELECTROMAGNETIC RADIATION. OPERATE THE TRANSMITTERS FOR BRIEF PERIODS ONLY UNTIL THE FAULT IS ISOLATED AND REPAIRED.

CAUTION

WHEN THE TACJAM FAULT PAGE INDICATES VSWR HI IT MAY MEAN THAT A HIGH LEVEL OF RF ENERGY IS BEING REFLECTED BACK INTO THE TRANSMITTER. PROLONGED OPERATION IN THIS CONDITION CAN DAMAGE THE EQUIPMENT. WHEN VSWR HI IS DISPLAYED OPERATE THE TRANSMITTERS FOR BRIEF PERIODS ONLY UNTIL THE FAULT IS ISOLATED AND REPAIRED.

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 3 of 93)


C
CHECK FAULT INDICATORS ON TACJAM FAULT PAGE
LOCATE THE APPROPRIATE BRANCH FROM THE TABLE(SHEET 5-8) AND FOLLOW THE PROCEDURE

CAUTION

TROUBLE SHOOT VSWR PROBLEMS FIRST

REFER TO TM 32-5865-060-10

WHEN THE HARDWARE IS WORKING, THE FIELDS ON THE TACJAM FAULT PAGE (X) WILL BE BLANK

WHEN THE COMPUTER DETECTS A MALFUNCTION, A FAILURE INDICATOR IS PLACED IN THE FIELD

FAILURE INDICATORS APPEAR AS FOLLOWS:

1. AN 'F' IN FIELDS; ANTENNA, ANT CONTROL, RCVR CONTROL, DATA LINK CTL, RSPU DISPLAY, SIG INT/DIST, RCVR SET, DATA LINK I/O, DATA LINK EQP, DATA LINK RCVR, DATA LINK XMTR, DRIVER AMP, DUPLX
2. A DIGIT (1-4) IN FIELDS;
   RECEIVERS (1-4), AMP CONT (1-3), EXCITERS (1-3), PWR SUPPLIES (1-2)
3. THE PWR AMP 1 AND PWR AMP 2 FIELDS DISPLAY IX/OX
   (X IS A DIGIT 0-4)
4. THE LETTERS HI ARE DISPLAYED IN THE VSWR FIELD
5. THE RF POWER FIELD DISPLAYS TRANSMITTER POWER OUTPUT, RELATIVE TO MAXIMUM POWER (0 dB)

NOTE

BRANCHES ARE MARKED ① THRU ㉓ AND LABLED WITH THE DATA AS IT APPEARS ON THE TACJAM FAULT PAGE

TAKE CARE TO IDENTIFY THE CORRECT BRANCH TO FOLLOW

NOTE

TJ CONTROL AND PROCESSOR TEST ARE NOT IMPLEMENTED

THESE FIELDS WILL REMAIN BLANK

57825-4

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 4 of 93)

TACJAM FAULT PAGE INDICATION (GENERAL STATUS)	BRANCH NO.	SHEET NUMBER
ANTENNA F ANT CONTROL F	①	9
RECEIVERS X	②	17
AMP CONTROL X	③	22
EXCITERS 1 2 3	④	22
RCVR CONT F	⑤	24
RSPU DISPLAY F	⑥	24
EXCITERS X	⑦	25
SIG INT/DIST F	⑧	30

57825-5

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 5 of 93)

TACJAM FAULT PAGE INDICATION (GENERAL STATUS)	BRANCH NO	SHEET NUMBER
RCVR SET F	⑨	31
DATA LINK CTL F DATA LINK I/O F DATA LINK EQP F DATA LINK XMTR F	⑩	32
DATA LINK CTL F DATA LINK I/O F DATA LINK EQP F DATA LINK RCVR F DATA LINK XMTR F	⑪	32
DATA LINK CTL F DATA LINK I/O F	⑫	32
DATA LINK RCVR F	⑬	33
DATA LINK XMTR F	⑭	34
(TRANSMITTER STATUS) XMTR X A - PWR AMP 1 14/04 PWR SUPPLIES 1 XMTR X B - PWR AMP 2 14/04 PWR SUPPLIES 2 DRIVER AMP F	⑮ A OR B	35

67825-6

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 6 of 93)

TACJAM FAULT PAGE INDICATION (TRANSMITTER STATUS)	BRANCH NO.	SHEET NUMBER
A — XMTR X PWR AMP 1 IX/OX RF POWER -XXDB B — XMTR X PWR AMP 2 IX/OX RF POWER -XXDB	⑯ A OR B	35
A — XMTR X PWR AMP 1 IO/OX B — XMTR X PWR AMP 2 IO/OX	⑰ A OR B	36
XMTRX RF POWER -XXDB	⑱	37
XMTR X RF POWER -XXDB VSWR HI	⑲	48
XMTR X VSWR HI	⑳	53
XMTR X DRIVER AMP F RF POWER -XXDB	㉑	60

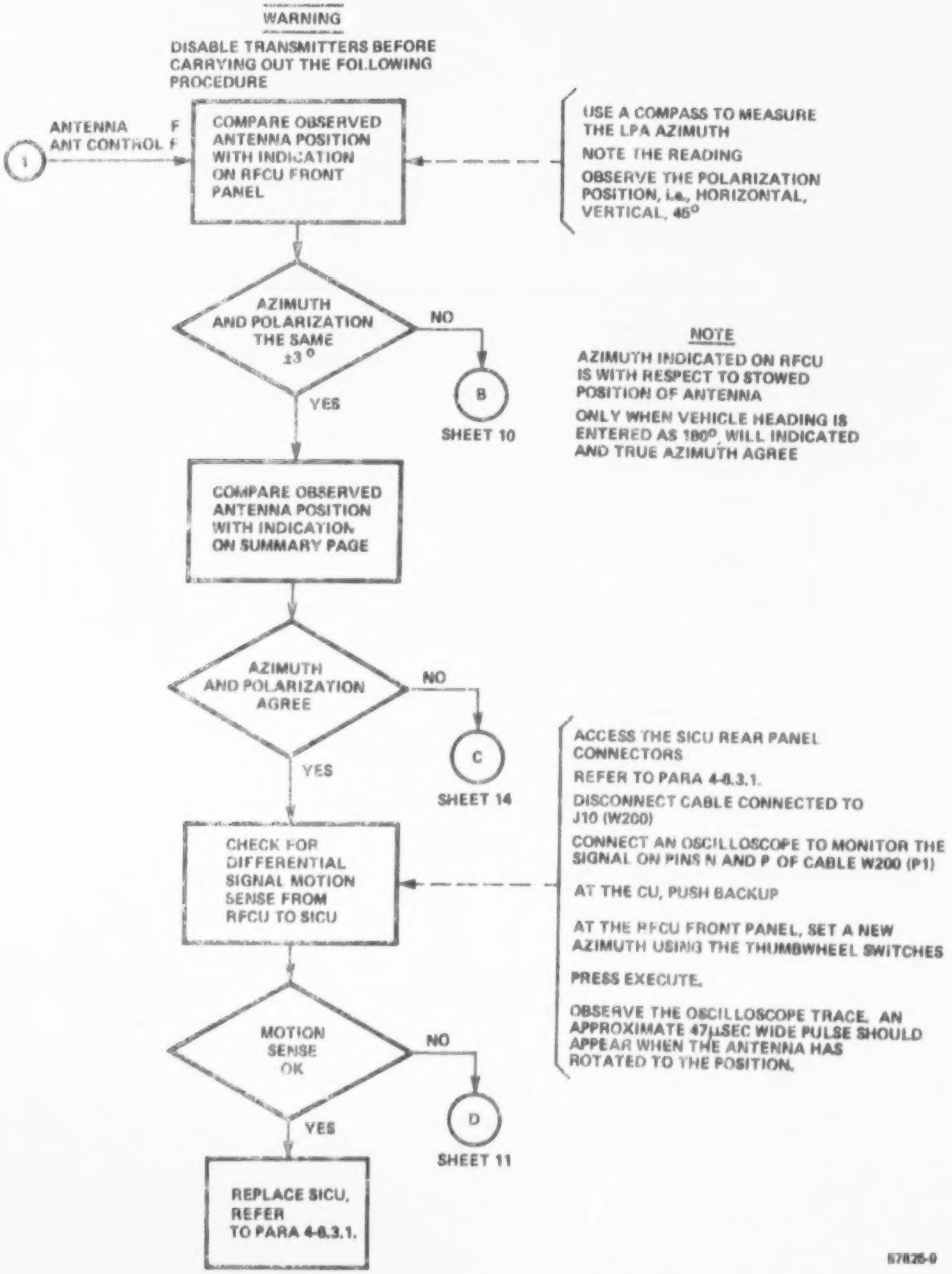
57826-7

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 7 of 93)

TACJAM FAULT PAGE INDICATION (TRANSMITTER STATUS)	BRANCH NO.	SHEET NUMBER
XMTR X DUPLX F	22	64
XMTR 1 XMTR 2 XMTR 3 DUPLX F F F	23	67

57826-8

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 8 of 93)


ANTENNA F
ANT CONTROL F
1
COMPARE OBSERVED ANTENNA POSITION WITH INDICATION ON RFCU FRONT PANEL
AZIMUTH AND POLARIZATION THE SAME ±3°
NO
B
SHEET 10
YES
COMPARE OBSERVED ANTENNA POSITION WITH INDICATION ON SUMMARY PAGE
AZIMUTH AND POLARIZATION AGREE
NO
C
SHEET 14
YES
CHECK FOR DIFFERENTIAL SIGNAL MOTION SENSE FROM RFCU TO SICU
MOTION SENSE OK
NO
D
SHEET 11
YES
REPLACE SICU, REFER TO PARA 4-8.3.1.
57825-9

WARNING

DISABLE TRANSMITTERS BEFORE CARRYING OUT THE FOLLOWING PROCEDURE

USE A COMPASS TO MEASURE THE LPA AZIMUTH

NOTE THE READING

OBSERVE THE POLARIZATION POSITION, i.e., HORIZONTAL, VERTICAL, 45°

NOTE

AZIMUTH INDICATED ON RFCU IS WITH RESPECT TO STOWED POSITION OF ANTENNA

ONLY WHEN VEHICLE HEADING IS ENTERED AS 180°, WILL INDICATED AND TRUE AZIMUTH AGREE

ACCESS THE SICU REAR PANEL CONNECTORS

REFER TO PARA 4-8.3.1.

DISCONNECT CABLE CONNECTED TO J10 (W200)

CONNECT AN OSCILLOSCOPE TO MONITOR THE SIGNAL ON PINS N AND P OF CABLE W200 (P1)

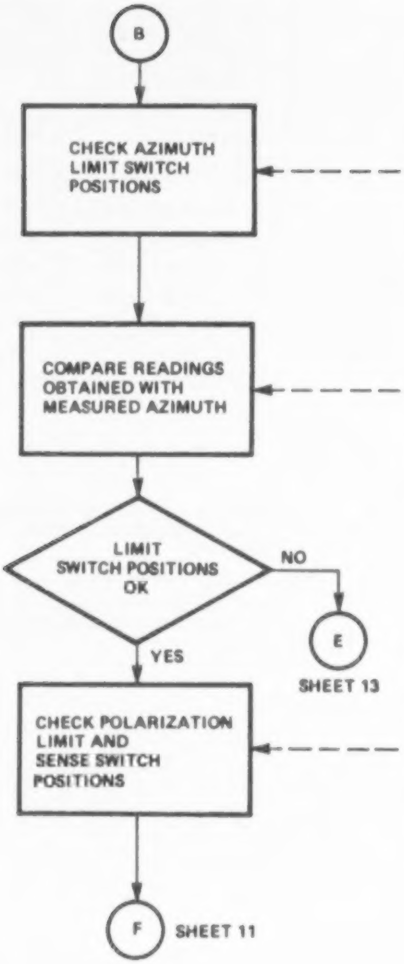
AT THE CU, PUSH BACKUP

AT THE RFCU FRONT PANEL, SET A NEW AZIMUTH USING THE THUMBWHEEL SWITCHES

PRESS EXECUTE.

OBSERVE THE OSCILLOSCOPE TRACE. AN APPROXIMATE 47µSEC WIDE PULSE SHOULD APPEAR WHEN THE ANTENNA HAS ROTATED TO THE POSITION.

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 9 of 93)


B
CHECK AZIMUTH LIMIT SWITCH POSITIONS
COMPARE READINGS OBTAINED WITH MEASURED AZIMUTH
LIMIT SWITCH POSITIONS OK
NO
E
SHEET 13
YES
CHECK POLARIZATION LIMIT AND SENSE SWITCH POSITIONS
F
SHEET 11

ACCESS THE RFCU REAR PANEL CONNECTORS

REFER TO PARA 4-6.3.2. DISCONNECT THE CABLE CONNECTED

TO J20 (W195)

USING A MULTIMETER, MEASURE THE RESISTANCE BETWEEN PINS G AND E AND PINS H AND J OF CABLE W195 (P1)

NOTE THE READINGS

READINGS SHOULD BE AS FOLLOWS:

MEASURED AZIMUTH (A)	RESISTANCE G TO E (R)	RESISTANCE H TO J (R)
A ≥ 335°	R < 5Ω	R > 1MΩ
A < 9°	R > 1MΩ	R < 5MΩ
A > 9, A < 335	R >1MΩ	R > 1MΩ

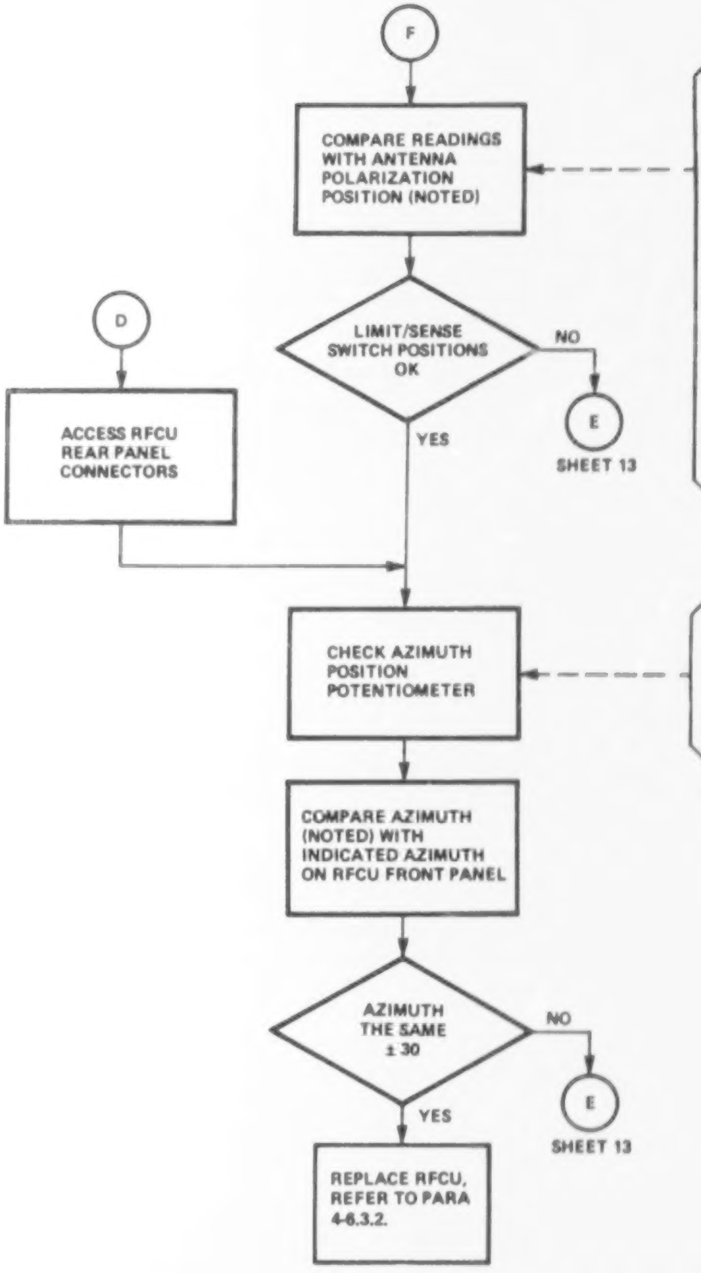
USING A MULTIMETER, MEASURE THE RESISTANCE BETWEEN PINS OF W195 (P1) AS FOLLOWS:

- A. L TO N
- B. P TO S
- C. A TO X
- D. A TO Y
- E. A TO Z

NOTE THE READINGS

57826-10

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 10 of 93)


F
COMPARE READINGS WITH ANTENNA POLARIZATION POSITION (NOTED)
LIMIT/SENSE SWITCH POSITIONS OK
NO
E
SHEET 13
YES
D
ACCESS RFCU REAR PANEL CONNECTORS
CHECK AZIMUTH POSITION POTENTIOMETER
COMPARE AZIMUTH (NOTED) WITH INDICATED AZIMUTH ON RFCU FRONT PANEL
AZIMUTH THE SAME ± 30
NO
E
SHEET 13
YES
REPLACE RFCU, REFER TO PARA 4-6.3.2.

READINGS SHOULD BE AS FOLLOWS:

POLARIZATION POSITION (P^0)	MEASURED RESISTANCE	
	FROM	VALUE (RΩ)
$P > 85$	L TO N	$R < 5\Omega$
$P < 85$	L TO N	$R > 1M\Omega$
$P < 3$	P TO S	$R < 5\Omega$
$P > 3$	P TO S	$R > 1M\Omega$
$P > 40$ BUT <83	a TO x	$R < 5\Omega$
$P > 83$ OR < 40	a TO x	$R > 1M\Omega$
$P > 3$ BUT < 45	a TO y	$R < 5\Omega$
$P > 45$ BUT < 85	a TO y	$R > 1M\Omega$
$P > 5$ BUT < 50	a TO z	$R < 5\Omega$
$P > 50$ OR < 5	a TO z	$R > 1M\Omega$

USING A MULTIMETER, MEASURE THE RESISTANCE BETWEEN PINS U AND V OF W196 (P1)

NOTE THE READING

USE THE CHART ON SHEET 12 TO CONVERT MEASURED RESISTANCE (R) INTO AZIMUTH

67826-11

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 11 of 93)

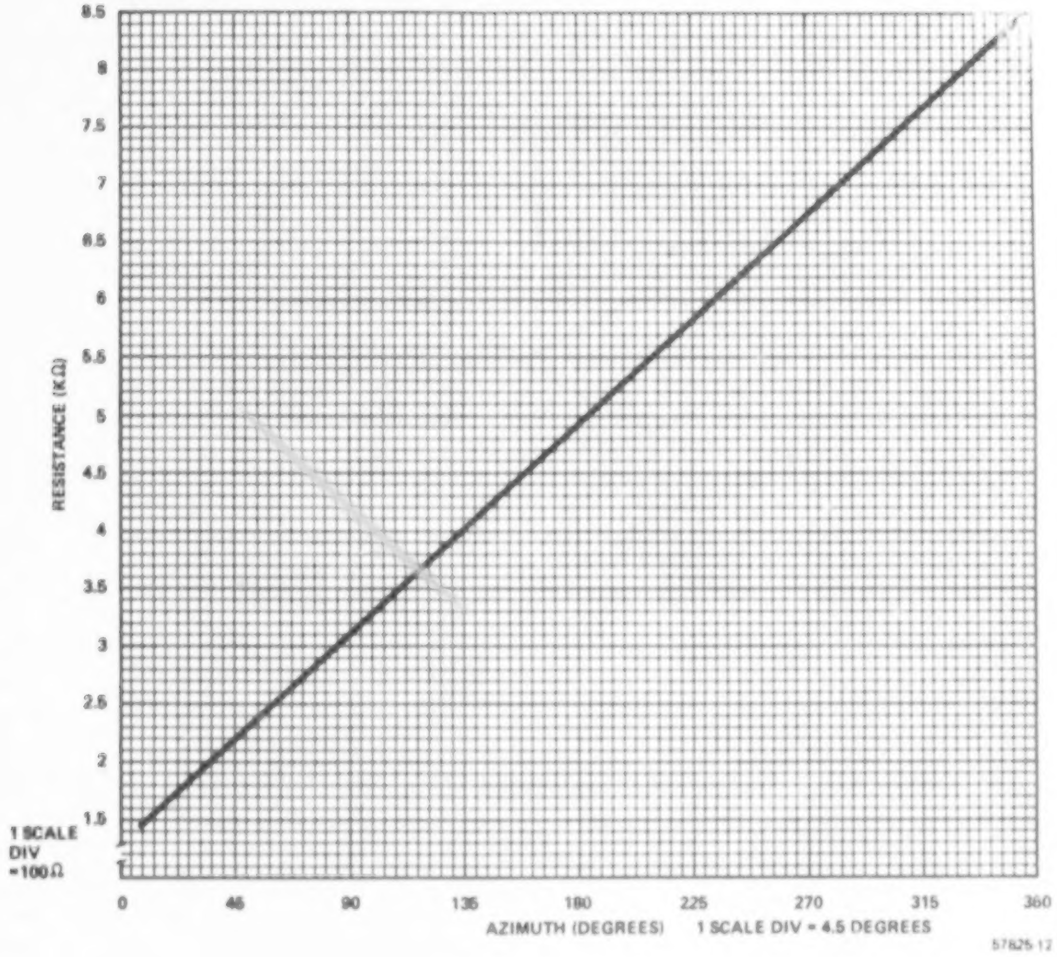


Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 12 of 93)

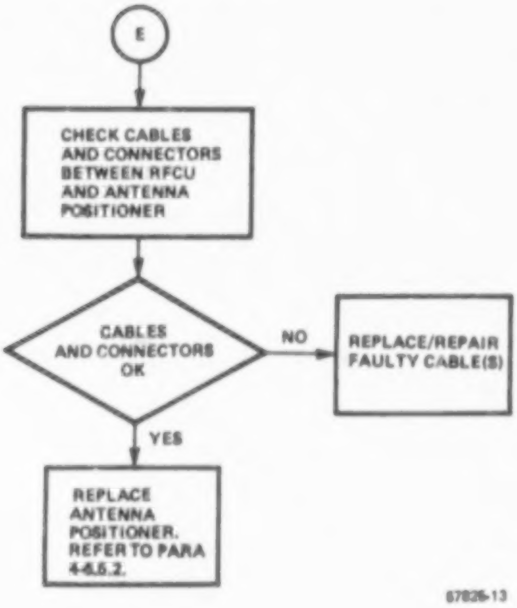

E
CHECK CABLES AND CONNECTORS BETWEEN RFCU AND ANTENNA POSITIONER
CABLES AND CONNECTORS OK
NO
REPLACE/REPAIR FAULTY CABLE(S)
YES
REPLACE ANTENNA POSITIONER. REFER TO PARA 4-6.5.2.
87826-13

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 13 of 93)

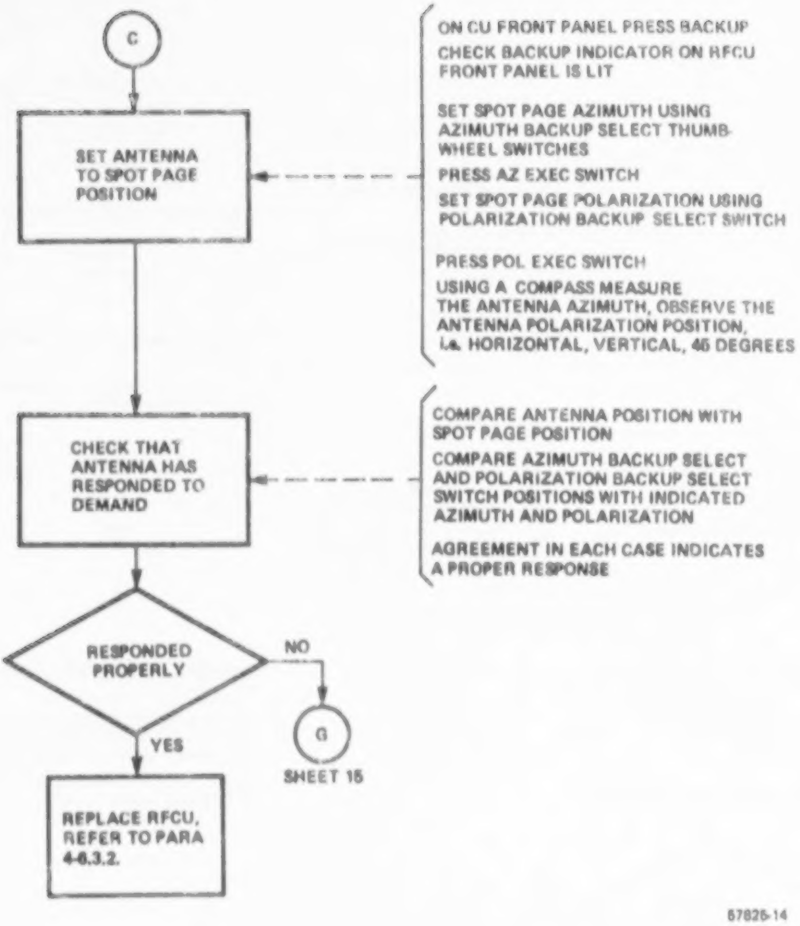
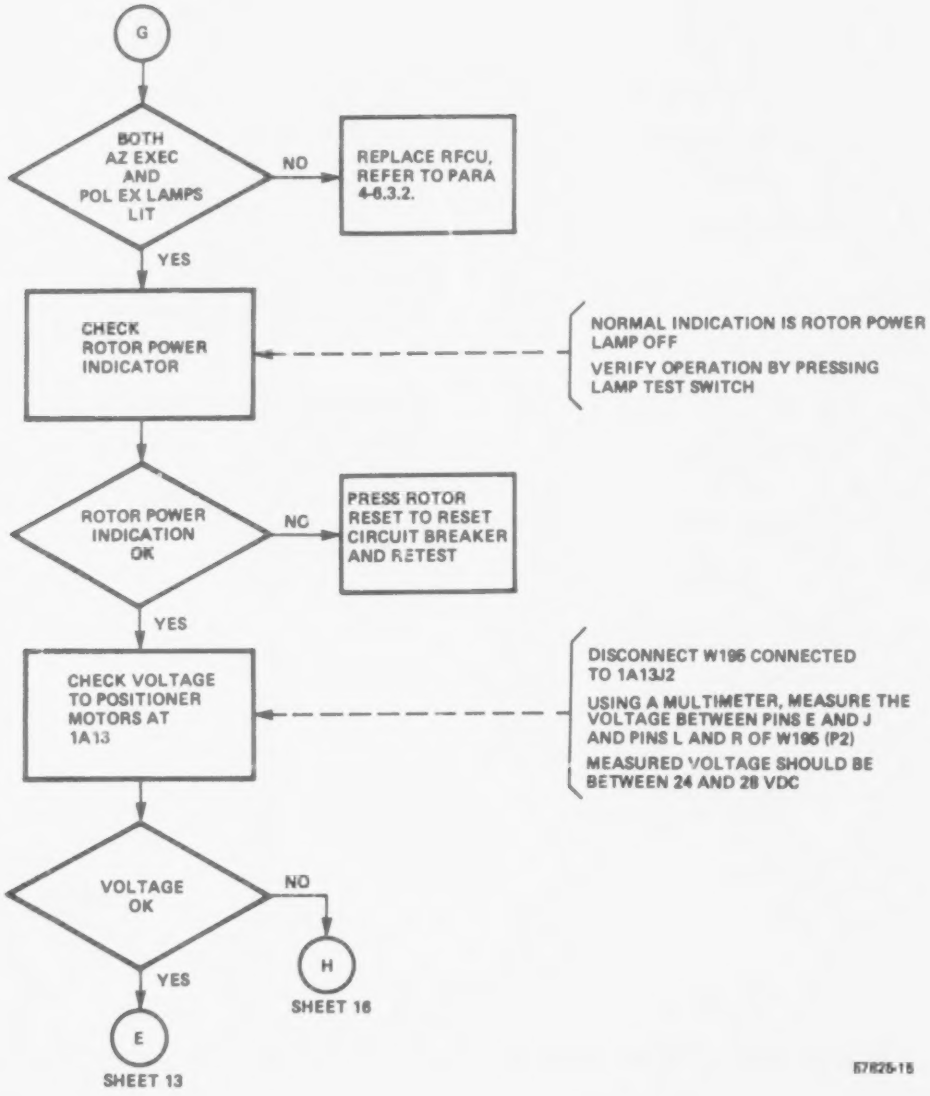

C
SET ANTENNA TO SPOT PAGE POSITION
ON CU FRONT PANEL PRESS BACKUP
CHECK BACKUP INDICATOR ON RFCU FRONT PANEL IS LIT
SET SPOT PAGE AZIMUTH USING AZIMUTH BACKUP SELECT THUMB-WHEEL SWITCHES
PRESS AZ EXEC SWITCH
SET SPOT PAGE POLARIZATION USING POLARIZATION BACKUP SELECT SWITCH
PRESS POL EXEC SWITCH
USING A COMPASS MEASURE THE ANTENNA AZIMUTH, OBSERVE THE ANTENNA POLARIZATION POSITION, i.e. HORIZONTAL, VERTICAL, 45 DEGREES
CHECK THAT ANTENNA HAS RESPONDED TO DEMAND
COMPARE ANTENNA POSITION WITH SPOT PAGE POSITION
COMPARE AZIMUTH BACKUP SELECT AND POLARIZATION BACKUP SELECT SWITCH POSITIONS WITH INDICATED AZIMUTH AND POLARIZATION
AGREEMENT IN EACH CASE INDICATES A PROPER RESPONSE
RESPONDED PROPERLY
NO
G
SHEET 15
YES
REPLACE RFCU, REFER TO PARA 4-6.3.2.
67826-14

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 14 of 93)


G
BOTH AZ EXEC AND POL EX LAMPS LIT
NO
REPLACE RFCU, REFER TO PARA 4-6.3.2.
YES
CHECK ROTOR POWER INDICATOR
ROTOR POWER INDICATION OK
NO
PRESS ROTOR RESET TO RESET CIRCUIT BREAKER AND RETEST
YES
CHECK VOLTAGE TO POSITIONER MOTORS AT 1A13
VOLTAGE OK
NO
H
SHEET 16
YES
E
SHEET 13
57825-15

NORMAL INDICATION IS ROTOR POWER LAMP OFF

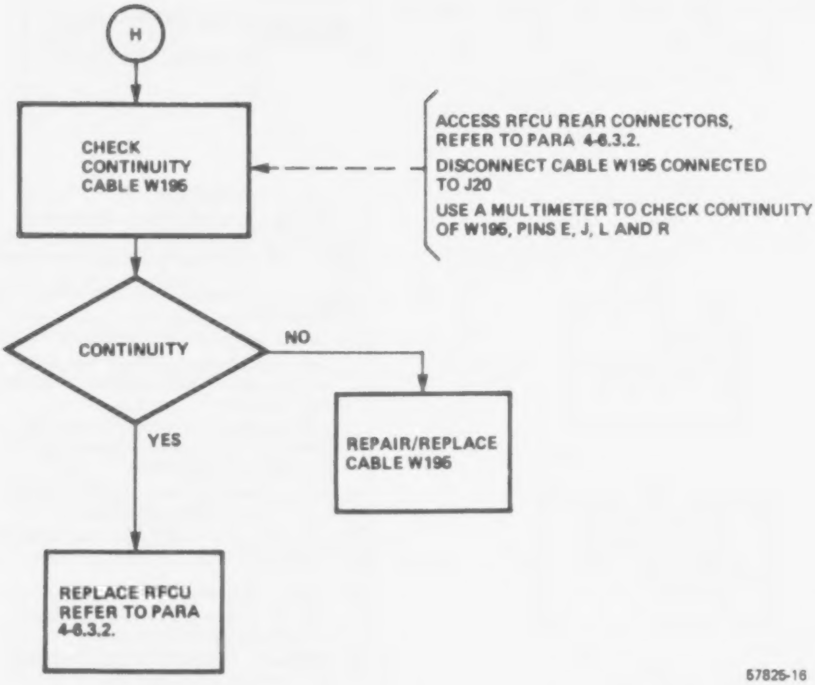
VERIFY OPERATION BY PRESSING LAMP TEST SWITCH

DISCONNECT W196 CONNECTED TO 1A13J2

USING A MULTIMETER, MEASURE THE VOLTAGE BETWEEN PINS E AND J AND PINS L AND R OF W196 (P2)

MEASURED VOLTAGE SHOULD BE BETWEEN 24 AND 28 VDC

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 15 of 93)

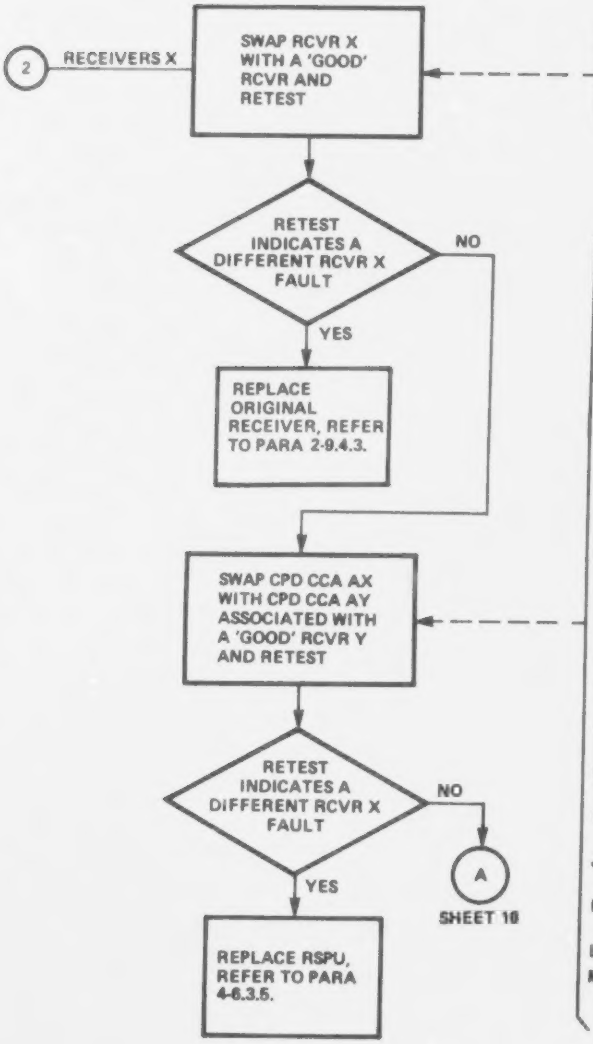

H
CHECK CONTINUITY CABLE W195
CONTINUITY
NO
YES
REPAIR/REPLACE CABLE W195
REPLACE RFCU REFER TO PARA 4-6.3.2.
57826-16

ACCESS RFCU REAR CONNECTORS, REFER TO PARA 4-6.3.2.

DISCONNECT CABLE W195 CONNECTED TO J20

USE A MULTIMETER TO CHECK CONTINUITY OF W195, PINS E, J, L AND R

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 16 of 93)


2
RECEIVERS X
SWAP RCVR X WITH A 'GOOD' RCVR AND RETEST
RETEST INDICATES A DIFFERENT RCVR X FAULT
NO
YES
REPLACE ORIGINAL RECEIVER, REFER TO PARA 2-9.4.3.
SWAP CPD CCA AX WITH CPD CCA AY ASSOCIATED WITH A 'GOOD' RCVR Y AND RETEST
RETEST INDICATES A DIFFERENT RCVR X FAULT
NO
YES
A
SHEET 18
REPLACE RSPU, REFER TO PARA 4-6.3.5.

REFER TO PARA 2-9.4.3. FOR PROCEDURE

NOTE INSTALLED POSITION OF RCVR X

CAUTION

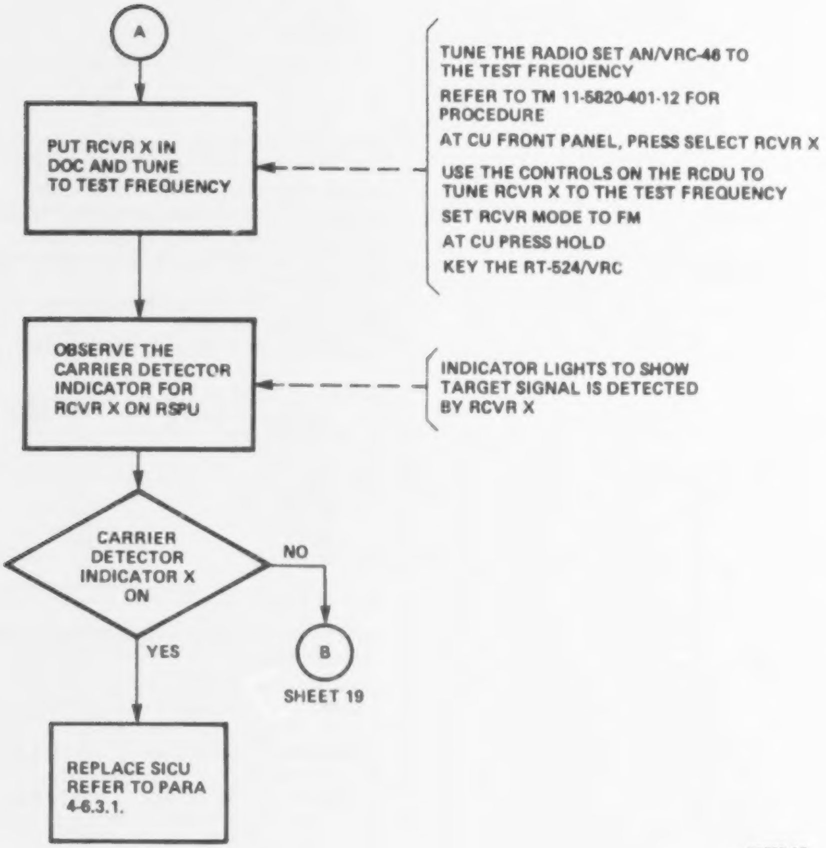
A1-A4 CONTAIN PARTS SENSITIVE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD). USE ESD PRECAUTIONARY PROCEDURES WHEN TOUCHING, REMOVING OR INSERTING THESE ASSEMBLIES

EXCHANGE CPD CCA POSITIONS AS FOLLOWS:

A. REMOVE AC POWER FROM THE RACK BY OPENING RCVR CIRCUIT BREAKER ON THE PDP
B. REMOVE AND RETAIN THE FOUR (4) SCREWS AND WASHERS SECURING THE RSPU TO THE RACK
C. WITH DRAW THE RACK ON ITS SLIDES UNTIL SLIDE CATCHES LOCK
D. RELEASE THE TURNLOCK FASTENERS SECURING THE TOP COVER. REMOVE THE COVER
E. LOCATE CCA AX IN CARD FILE
F. LIFT THE TWO (2) LOCKING CATCHES AT THE SIDES OF THE CCA
G. EXTRACT THE CARD FROM THE FILE BY LIFTING STRAIGHT UP
H. LOCATE CCA AY (ASSOCIATED WITH 'GOOD' RCVR Y)
I. EXTRACT CCA AY AS DESCRIBED IN PARA F AND G
J. POSITION CCA AX IN CARD FILE SLOT AY AND SECURE
K. POSITION CCA AY IN CARD FILE SLOT AX AND SECURE
L. REPLACE TOP COVER AND SECURE
M. RESTORE POWER TO THE RACK

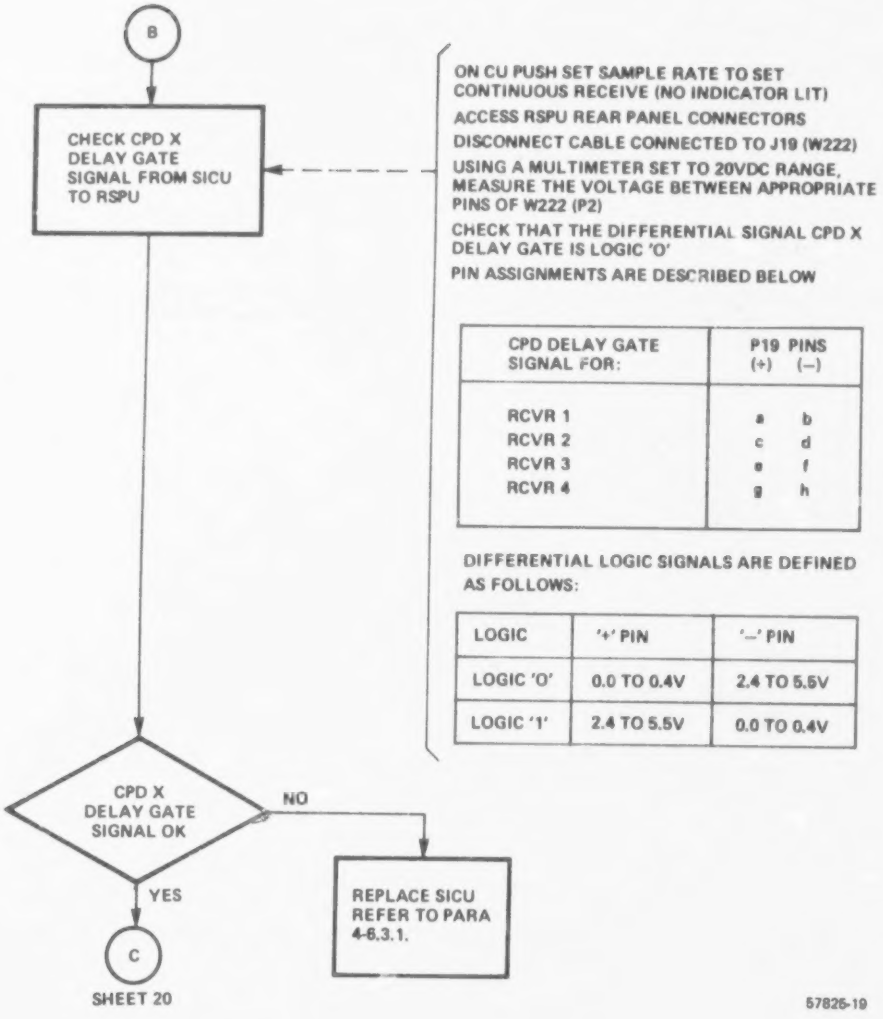
57025-17

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 17 of 93)


A
PUT RCVR X IN DOC AND TUNE TO TEST FREQUENCY
TUNE THE RADIO SET AN/VRC-46 TO THE TEST FREQUENCY
REFER TO TM 11-5820-401-12 FOR PROCEDURE
AT CU FRONT PANEL, PRESS SELECT RCVR X
USE THE CONTROLS ON THE RCDU TO TUNE RCVR X TO THE TEST FREQUENCY
SET RCVR MODE TO FM
AT CU PRESS HOLD
KEY THE RT-524/VRC
OBSERVE THE CARRIER DETECTOR INDICATOR FOR RCVR X ON RSPU
INDICATOR LIGHTS TO SHOW TARGET SIGNAL IS DETECTED BY RCVR X
CARRIER DETECTOR INDICATOR X ON
NO
B
SHEET 19
YES
REPLACE SICU REFER TO PARA 4-6.3.1.

57825-18

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 18 of 93)


B
CHECK CPD X DELAY GATE SIGNAL FROM SICU TO RSPU
CPD X DELAY GATE SIGNAL OK
NO
YES
REPLACE SICU REFER TO PARA 4-6.3.1.
C
SHEET 20
57825-19

ON CU PUSH SET SAMPLE RATE TO SET CONTINUOUS RECEIVE (NO INDICATOR LIT)

ACCESS RSPU REAR PANEL CONNECTORS

DISCONNECT CABLE CONNECTED TO J19 (W222)

USING A MULTIMETER SET TO 20VDC RANGE, MEASURE THE VOLTAGE BETWEEN APPROPRIATE PINS OF W222 (P2)

CHECK THAT THE DIFFERENTIAL SIGNAL CPD X DELAY GATE IS LOGIC 'O'

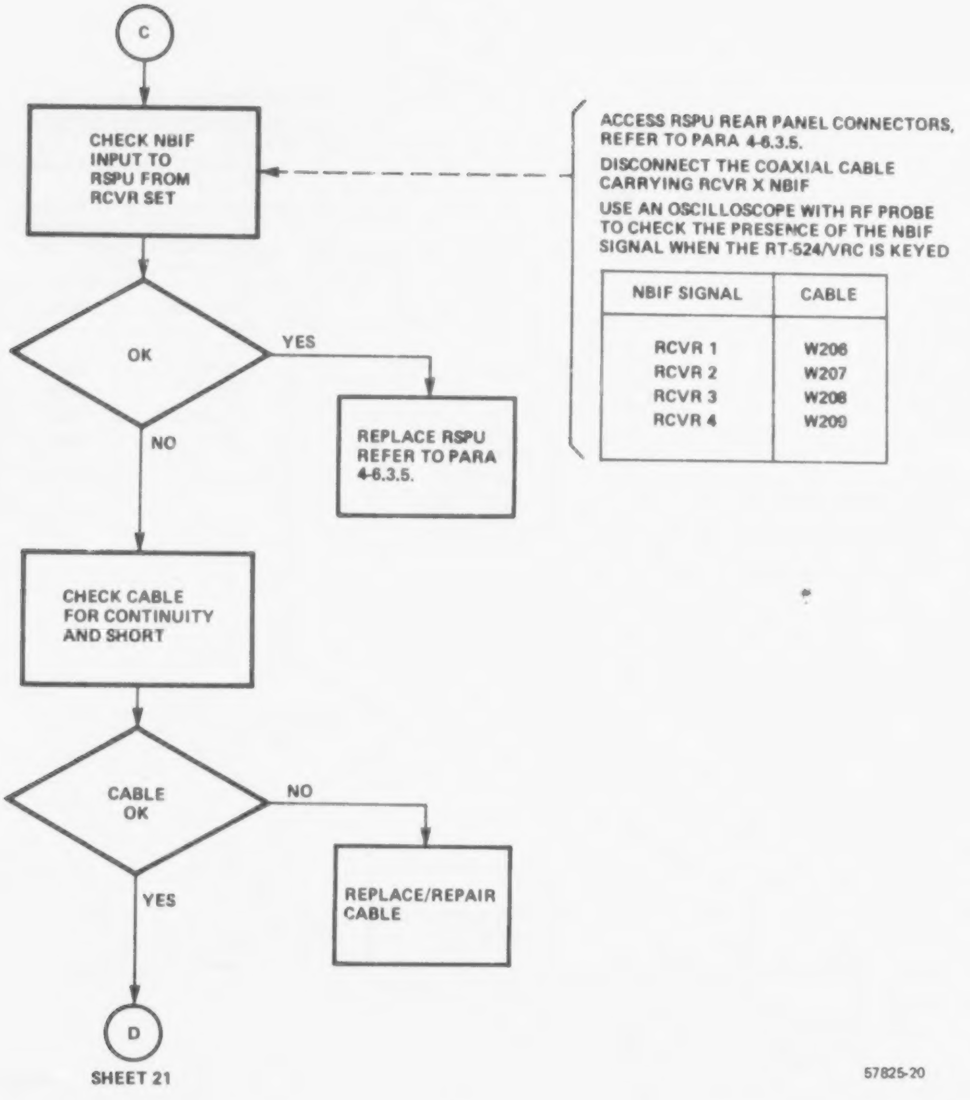
PIN ASSIGNMENTS ARE DESCRIBED BELOW

CPD DELAY GATE SIGNAL FOR:	P19 PINS (+)	(–)
RCVR 1	a	b
RCVR 2	c	d
RCVR 3	e	f
RCVR 4	g	h

DIFFERENTIAL LOGIC SIGNALS ARE DEFINED AS FOLLOWS:

LOGIC	'+' PIN	'–' PIN
LOGIC 'O'	0.0 TO 0.4V	2.4 TO 5.5V
LOGIC '1'	2.4 TO 5.5V	0.0 TO 0.4V

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 19 of 93)


C
CHECK NBIF INPUT TO RSPU FROM RCVR SET
OK
YES
NO
REPLACE RSPU REFER TO PARA 4-6.3.5.
CHECK CABLE FOR CONTINUITY AND SHORT
CABLE OK
NO
YES
REPLACE/REPAIR CABLE
D
SHEET 21

ACCESS RSPU REAR PANEL CONNECTORS, REFER TO PARA 4-6.3.5.

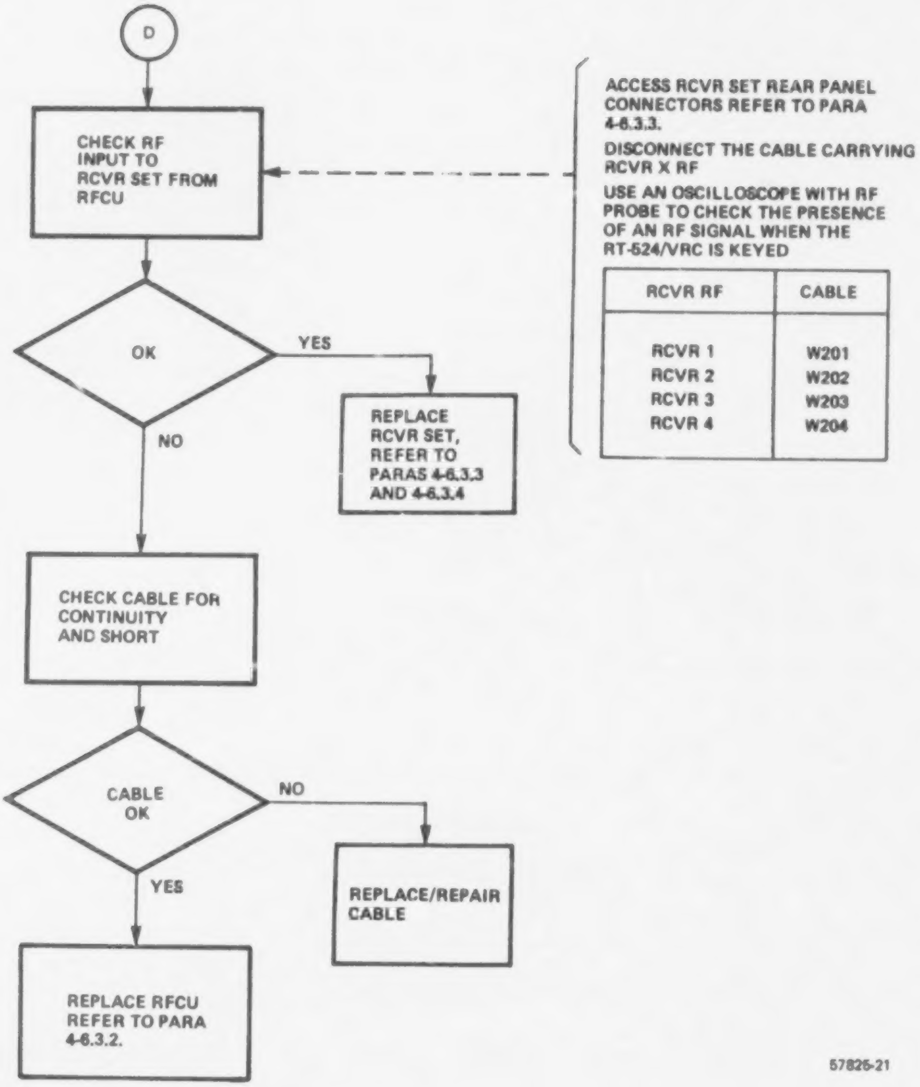
DISCONNECT THE COAXIAL CABLE CARRYING RCVR X NBIF

USE AN OSCILLOSCOPE WITH RF PROBE TO CHECK THE PRESENCE OF THE NBIF SIGNAL WHEN THE RT-524/VRC IS KEYED

NBIF SIGNAL	CABLE
RCVR 1	W206
RCVR 2	W207
RCVR 3	W208
RCVR 4	W209

57825-20

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 20 of 93)


D
CHECK RF INPUT TO RCVR SET FROM RFCU
OK
YES
REPLACE RCVR SET, REFER TO PARAS 4-6.3.3 AND 4-6.3.4
NO
CHECK CABLE FOR CONTINUITY AND SHORT
CABLE OK
NO
REPLACE/REPAIR CABLE
YES
REPLACE RFCU REFER TO PARA 4-6.3.2.
57826-21

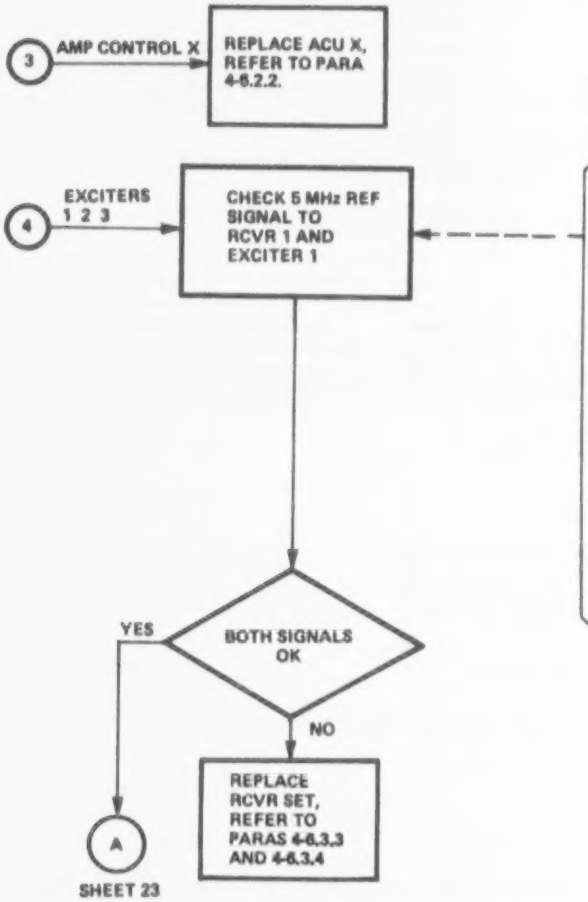
ACCESS RCVR SET REAR PANEL CONNECTORS REFER TO PARA 4-6.3.3.

DISCONNECT THE CABLE CARRYING RCVR X RF

USE AN OSCILLOSCOPE WITH RF PROBE TO CHECK THE PRESENCE OF AN RF SIGNAL WHEN THE RT-524/VRC IS KEYED

RCVR RF	CABLE
RCVR 1	W201
RCVR 2	W202
RCVR 3	W203
RCVR 4	W204

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 21 of 93)


3
AMP CONTROL X
REPLACE ACU X, REFER TO PARA 4-6.2.2.
4
EXCITERS 1 2 3
CHECK 5 MHz REF SIGNAL TO RCVR 1 AND EXCITER 1
BOTH SIGNALS OK
YES
NO
REPLACE RCVR SET, REFER TO PARAS 4-6.3.3 AND 4-6.3.4
A
SHEET 23

CAUTION

DO NOT OPERATE THE RCVR SET WITH RCVR 1 REMOVED FOR MORE THAN 2 MINUTES

LOSS OF COOLING AIR FLOW MAY DAMAGE THE EQUIPMENT

REMOVE RCVR 1 FROM ITS INSTALLED POSITION IN THE RCVR SET

REFER TO PARA 2-9.4.3 FOR PROCEDURE

LOCATE XA1P2-A8

USE AN OSCILLOSCOPE TO MONITOR THE 5 MHz REFERENCE AT COAXIAL CONNECTOR XA1-P2A8

MEASURED SIGNAL LEVEL SHOULD BE 2.5V p-p

INSTALL RCVR 1 REFER TO PARA 2-9.4.3.

WITHDRAW THE RCVR SET FROM THE RACK ON ITS SLIDES TO ACCESS THE REAR PANEL REFER TO PARA 4-6.3.3.

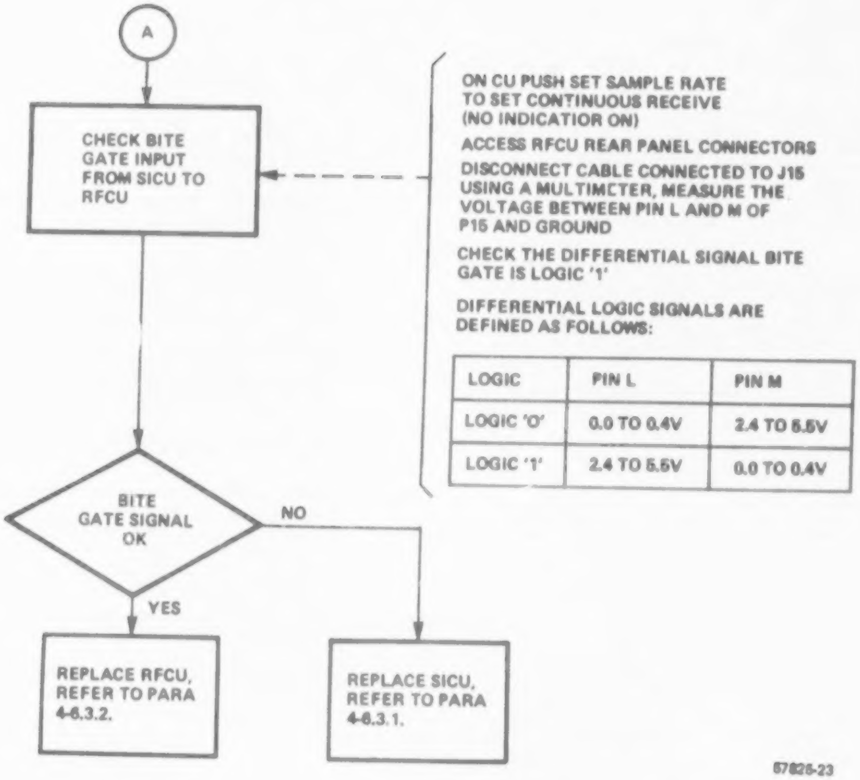
LOCATE AND DISCONNECT THE COAXIAL CABLE CONNECTED TO J17

USE AN OSCILLOSCOPE TO MEASURE THE 5 MHz REFERENCE AT J17

MEASURED SIGNAL LEVEL SHOULD BE 2.5V P-P

67826-22

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 22 of 93)


A
CHECK BITE GATE INPUT FROM SICU TO RFCU
BITE GATE SIGNAL OK
NO
YES
REPLACE RFCU, REFER TO PARA 4-6.3.2.
REPLACE SICU, REFER TO PARA 4-6.3.1.
57825-23

ON CU PUSH SET SAMPLE RATE TO SET CONTINUOUS RECEIVE (NO INDICATION ON)

ACCESS RFCU REAR PANEL CONNECTORS

DISCONNECT CABLE CONNECTED TO J15 USING A MULTIMETER, MEASURE THE VOLTAGE BETWEEN PIN L AND M OF P15 AND GROUND

CHECK THE DIFFERENTIAL SIGNAL BITE GATE IS LOGIC '1'

DIFFERENTIAL LOGIC SIGNALS ARE DEFINED AS FOLLOWS:

LOGIC	PIN L	PIN M
LOGIC '0'	0.0 TO 0.4V	2.4 TO 5.5V
LOGIC '1'	2.4 TO 5.5V	0.0 TO 0.4V

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 23 of 93)

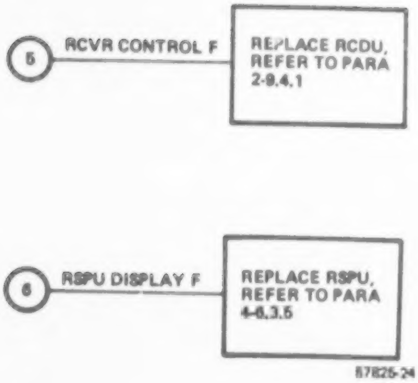
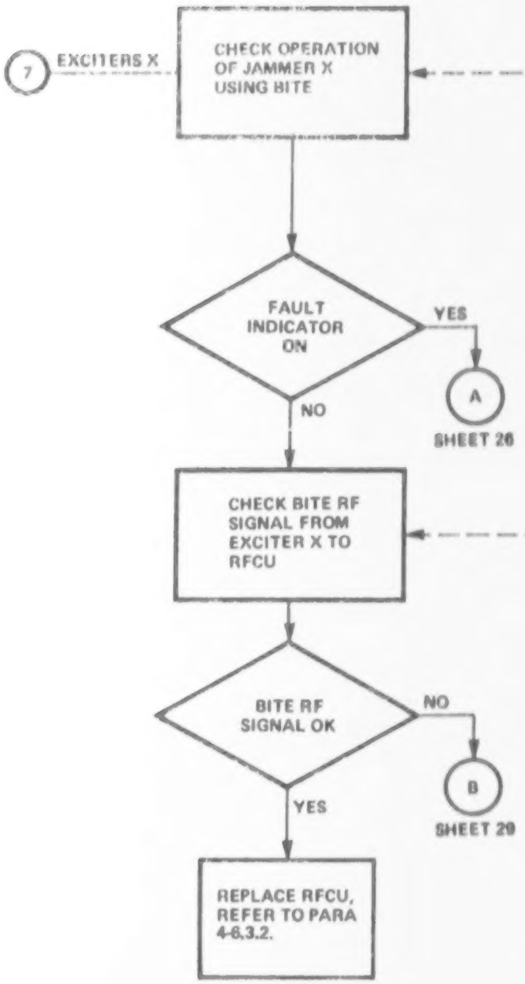

5
RCVR CONTROL F
REPLACE RCDU, REFER TO PARA 2-9.4.1
6
RSPU DISPLAY F
REPLACE RSPU, REFER TO PARA 4-6.3.5
67826-24

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 24 of 93)


7
EXCITERS X
CHECK OPERATION OF JAMMER X USING BITE
FAULT INDICATOR ON
YES
A
SHEET 26
NO
CHECK BITE RF SIGNAL FROM EXCITER X TO RFCU
BITE RF SIGNAL OK
NO
B
SHEET 29
YES
REPLACE RFCU, REFER TO PARA 4-6.3.2.

ON CU, PUSH: JAMMER OFF FOR JAMMER Y AND Z, PUSH ARM/INHIBIT TO LIGHT THE ARM SEGMENT, SELECT RCVR HOLD, TEST/FAULT FOR JAMMER X

CHECK FAULT INDICATOR IN TEST/FAULT SWITCH

PUSH JAMMER OFF, ARM/INHIBIT TO LIGHT INHIBIT

ON CU PUSH SET SAMPLE RATE TO SET CONTINUOUS RECEIVE (NO INDICATOR LIT)

ACCESS RFCU REAR PANEL CONNECTORS

LOCATE APPROPRIATE BITE RF SIGNAL CONNECTOR FROM FOLLOWING TABLE :

EXCITER	BITE RF CONNECTOR
1	J10
2	J11
3	J12

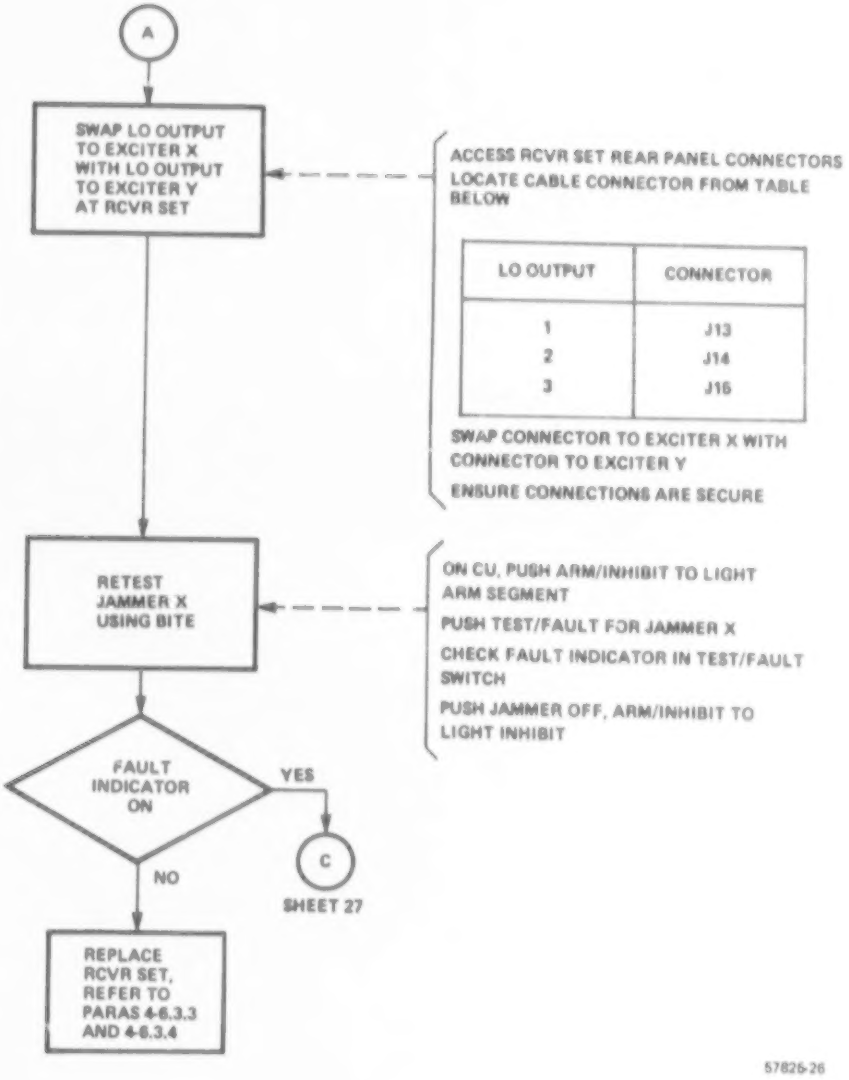
DISCONNECT THE APPROPRIATE CONNECTOR

MEASURE THE BITE RF OUTPUT FROM EXCITER X USING THE POWER METER AND POWER SENSOR

RF LEVEL SHOULD BE -17dBm ± 5dBm

07825-26

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 25 of 93)


A
SWAP LO OUTPUT TO EXCITER X WITH LO OUTPUT TO EXCITER Y AT RCVR SET
RETEST JAMMER X USING BITE
FAULT INDICATOR ON
YES
C
SHEET 27
NO
REPLACE RCVR SET, REFER TO PARAS 4-6.3.3 AND 4-6.3.4
57826-26

ACCESS RCVR SET REAR PANEL CONNECTORS

LOCATE CABLE CONNECTOR FROM TABLE BELOW

LO OUTPUT	CONNECTOR
1	J13
2	J14
3	J15

SWAP CONNECTOR TO EXCITER X WITH CONNECTOR TO EXCITER Y

ENSURE CONNECTIONS ARE SECURE

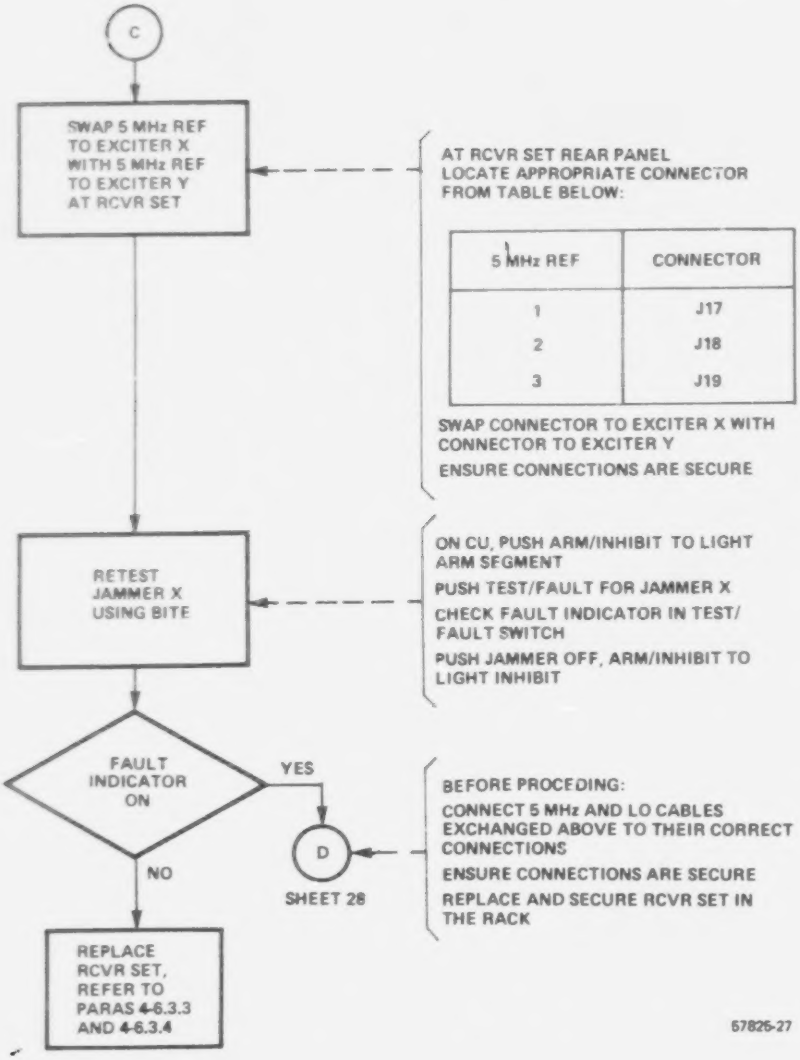
ON CU, PUSH ARM/INHIBIT TO LIGHT ARM SEGMENT

PUSH TEST/FAULT FOR JAMMER X

CHECK FAULT INDICATOR IN TEST/FAULT SWITCH

PUSH JAMMER OFF, ARM/INHIBIT TO LIGHT INHIBIT

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 26 of 93)


C
SWAP 5 MHz REF TO EXCITER X WITH 5 MHz REF TO EXCITER Y AT RCVR SET
RETEST JAMMER X USING BITE
FAULT INDICATOR ON
YES
NO
D
SHEET 28
REPLACE RCVR SET, REFER TO PARAS 4-6.3.3 AND 4-6.3.4
57826-27

AT RCVR SET REAR PANEL LOCATE APPROPRIATE CONNECTOR FROM TABLE BELOW:

5 MHz REF	CONNECTOR
1	J17
2	J18
3	J19

SWAP CONNECTOR TO EXCITER X WITH CONNECTOR TO EXCITER Y

ENSURE CONNECTIONS ARE SECURE

ON CU, PUSH ARM/INHIBIT TO LIGHT ARM SEGMENT

PUSH TEST/FAULT FOR JAMMER X

CHECK FAULT INDICATOR IN TEST/FAULT SWITCH

PUSH JAMMER OFF, ARM/INHIBIT TO LIGHT INHIBIT

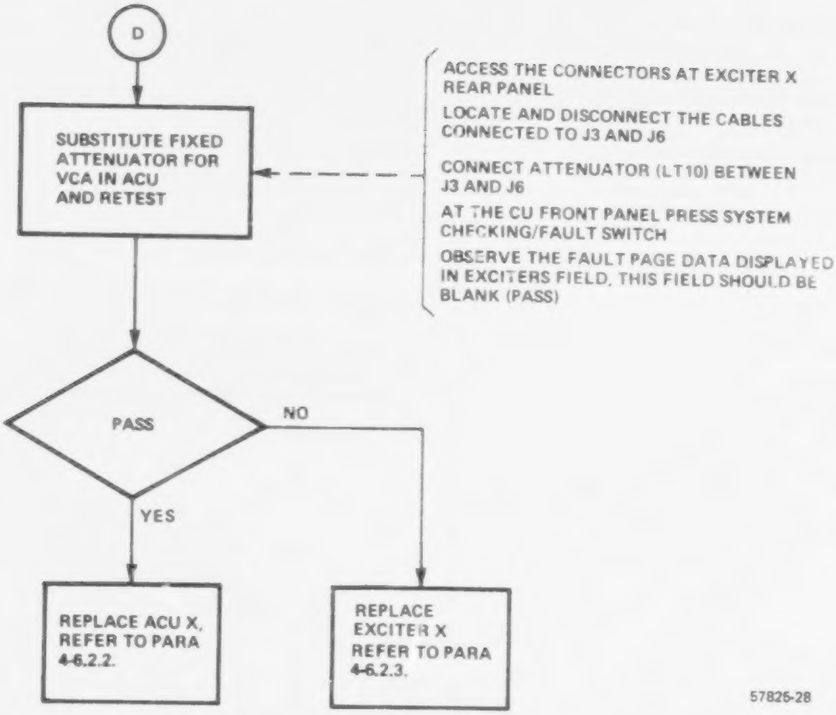
BEFORE PROCEDING:

CONNECT 5 MHz AND LO CABLES EXCHANGED ABOVE TO THEIR CORRECT CONNECTIONS

ENSURE CONNECTIONS ARE SECURE

REPLACE AND SECURE RCVR SET IN THE RACK

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 27 of 93)


D
SUBSTITUTE FIXED ATTENUATOR FOR VCA IN ACU AND RETEST
PASS
NO
YES
REPLACE ACU X, REFER TO PARA 4-6.2.2.
REPLACE EXCITER X REFER TO PARA 4-6.2.3.
57826-28

ACCESS THE CONNECTORS AT EXCITER X REAR PANEL

LOCATE AND DISCONNECT THE CABLES CONNECTED TO J3 AND J6

CONNECT ATTENUATOR (LT10) BETWEEN J3 AND J6

AT THE CU FRONT PANEL PRESS SYSTEM CHECKING/FAULT SWITCH

OBSERVE THE FAULT PAGE DATA DISPLAYED IN EXCITERS FIELD. THIS FIELD SHOULD BE BLANK (PASS)

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 28 of 93)

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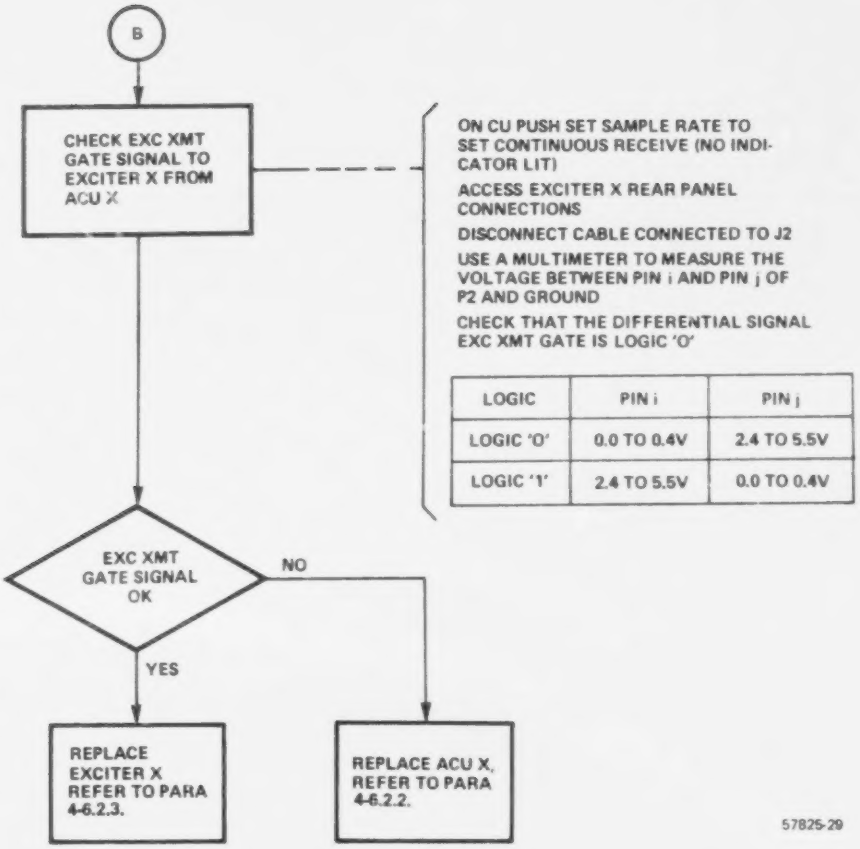

B
CHECK EXC XMT GATE SIGNAL TO EXCITER X FROM ACU X
EXC XMT GATE SIGNAL OK
NO
YES
REPLACE EXCITER X REFER TO PARA 4-6.2.3.
REPLACE ACU X, REFER TO PARA 4-6.2.2.
57825-29

ON CU PUSH SET SAMPLE RATE TO SET CONTINUOUS RECEIVE (NO INDICATOR LIT)

ACCESS EXCITER X REAR PANEL CONNECTIONS

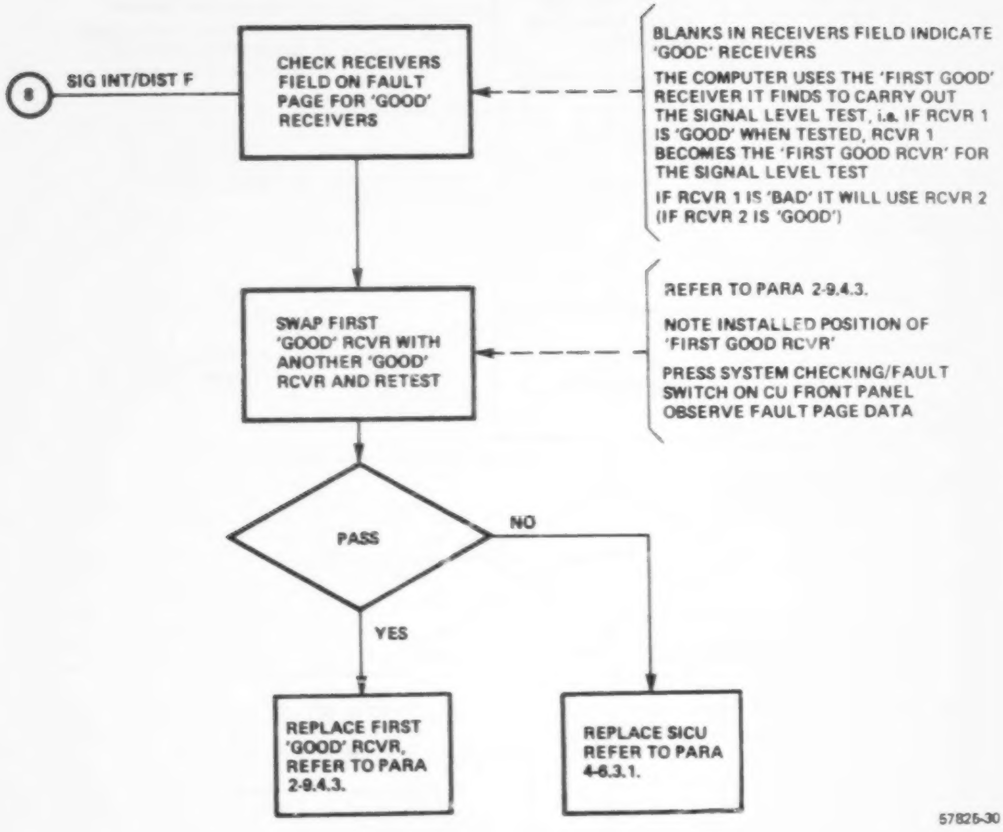
DISCONNECT CABLE CONNECTED TO J2

USE A MULTIMETER TO MEASURE THE VOLTAGE BETWEEN PIN i AND PIN j OF P2 AND GROUND

CHECK THAT THE DIFFERENTIAL SIGNAL EXC XMT GATE IS LOGIC '0'

LOGIC	PIN i	PIN j
LOGIC '0'	0.0 TO 0.4V	2.4 TO 5.5V
LOGIC '1'	2.4 TO 5.5V	0.0 TO 0.4V

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 29 of 93)


8
SIG INT/DIST F
CHECK RECEIVERS FIELD ON FAULT PAGE FOR 'GOOD' RECEIVERS
SWAP FIRST 'GOOD' RCVR WITH ANOTHER 'GOOD' RCVR AND RETEST
PASS
NO
YES
REPLACE FIRST 'GOOD' RCVR, REFER TO PARA 2-9.4.3.
REPLACE SICU REFER TO PARA 4-6.3.1.
57825-30

BLANKS IN RECEIVERS FIELD INDICATE 'GOOD' RECEIVERS

THE COMPUTER USES THE 'FIRST GOOD' RECEIVER IT FINDS TO CARRY OUT THE SIGNAL LEVEL TEST, i.e. IF RCVR 1 IS 'GOOD' WHEN TESTED, RCVR 1 BECOMES THE 'FIRST GOOD RCVR' FOR THE SIGNAL LEVEL TEST

IF RCVR 1 IS 'BAD' IT WILL USE RCVR 2 (IF RCVR 2 IS 'GOOD')

REFER TO PARA 2-9.4.3.

NOTE INSTALLED POSITION OF 'FIRST GOOD RCVR'

PRESS SYSTEM CHECKING/FAULT SWITCH ON CU FRONT PANEL OBSERVE FAULT PAGE DATA

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 30 of 93)

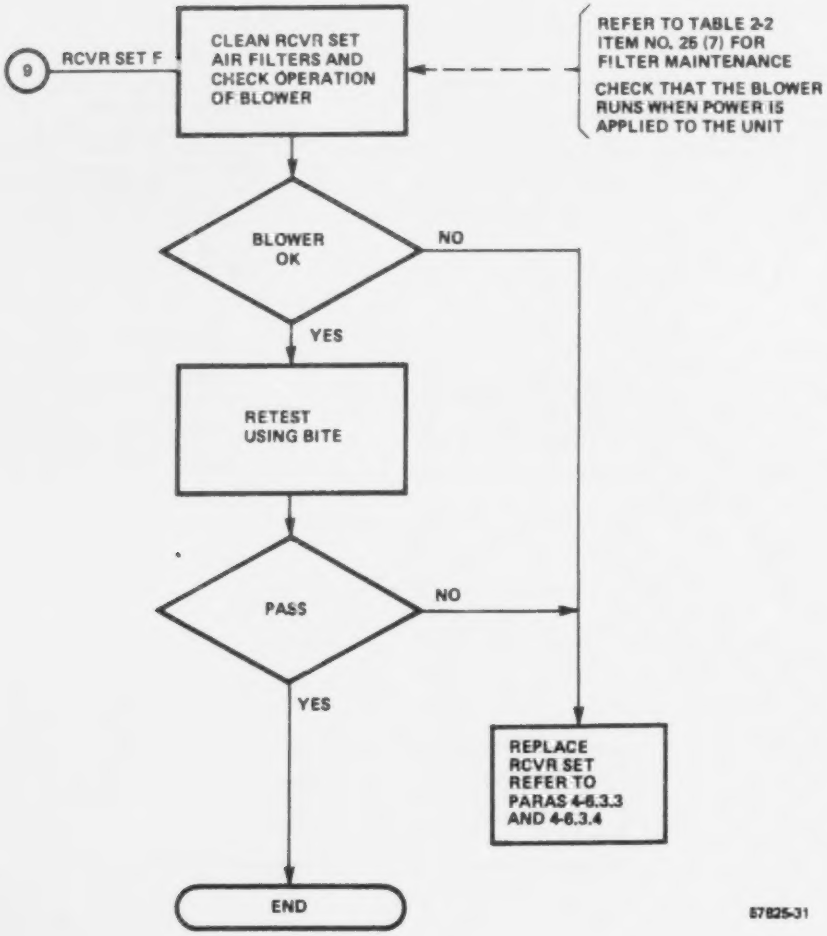

9
RCVR SET F
CLEAN RCVR SET AIR FILTERS AND CHECK OPERATION OF BLOWER
REFER TO TABLE 2-2 ITEM NO. 25 (7) FOR FILTER MAINTENANCE
CHECK THAT THE BLOWER RUNS WHEN POWER IS APPLIED TO THE UNIT
BLOWER OK
NO
YES
RETEST USING BITE
PASS
NO
YES
REPLACE RCVR SET REFER TO PARAS 4-6.3.3 AND 4-6.3.4
END
67825-31

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 31 of 93)

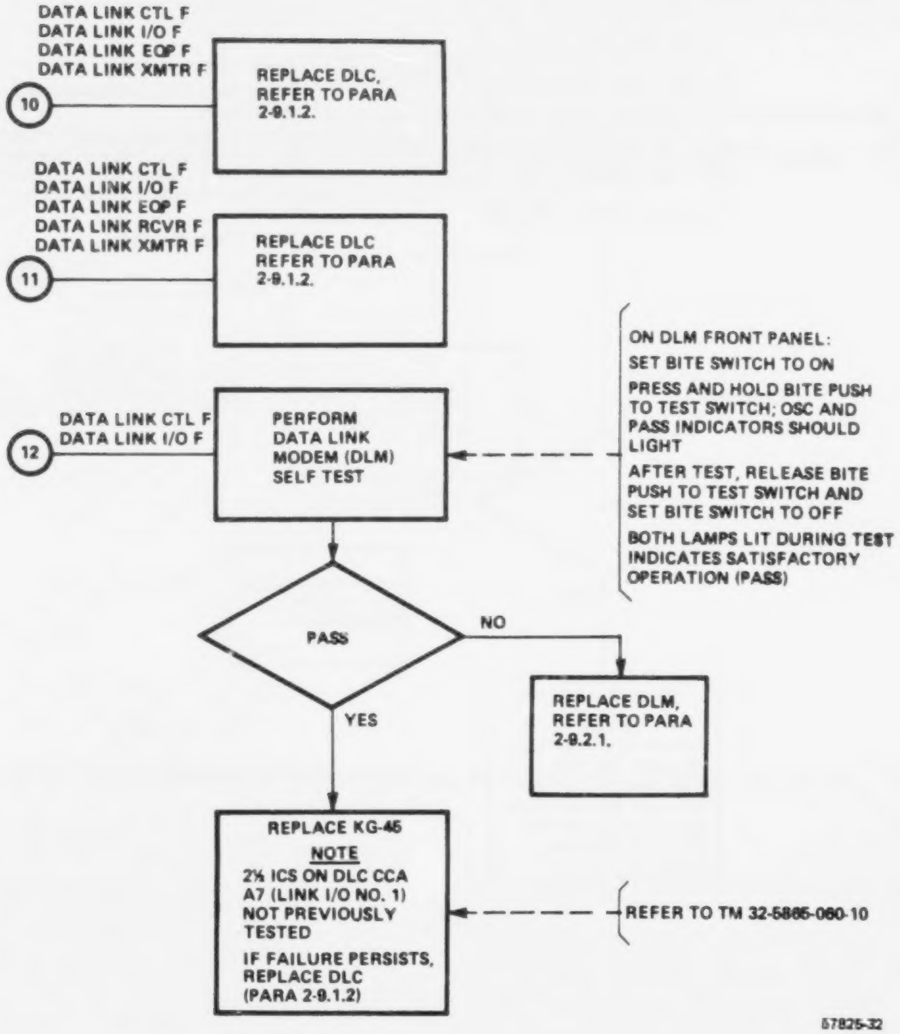

DATA LINK CTL F
DATA LINK I/O F
DATA LINK EOP F
DATA LINK XMTR F
10
REPLACE DLC, REFER TO PARA 2-9.1.2.
DATA LINK CTL F
DATA LINK I/O F
DATA LINK EOP F
DATA LINK RCVR F
DATA LINK XMTR F
11
REPLACE DLC REFER TO PARA 2-9.1.2.
DATA LINK CTL F
DATA LINK I/O F
12
PERFORM DATA LINK MODEM (DLM) SELF TEST
ON DLM FRONT PANEL:
SET BITE SWITCH TO ON
PRESS AND HOLD BITE PUSH TO TEST SWITCH; OSC AND PASS INDICATORS SHOULD LIGHT
AFTER TEST, RELEASE BITE PUSH TO TEST SWITCH AND SET BITE SWITCH TO OFF
BOTH LAMPS LIT DURING TEST INDICATES SATISFACTORY OPERATION (PASS)
PASS
NO
YES
REPLACE DLM, REFER TO PARA 2-9.2.1.
REPLACE KG-45
NOTE
2¼ ICS ON DLC CCA A7 (LINK I/O NO. 1) NOT PREVIOUSLY TESTED
IF FAILURE PERSISTS, REPLACE DLC (PARA 2-9.1.2)
REFER TO TM 32-5865-060-10
57825-32

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 32 of 93)

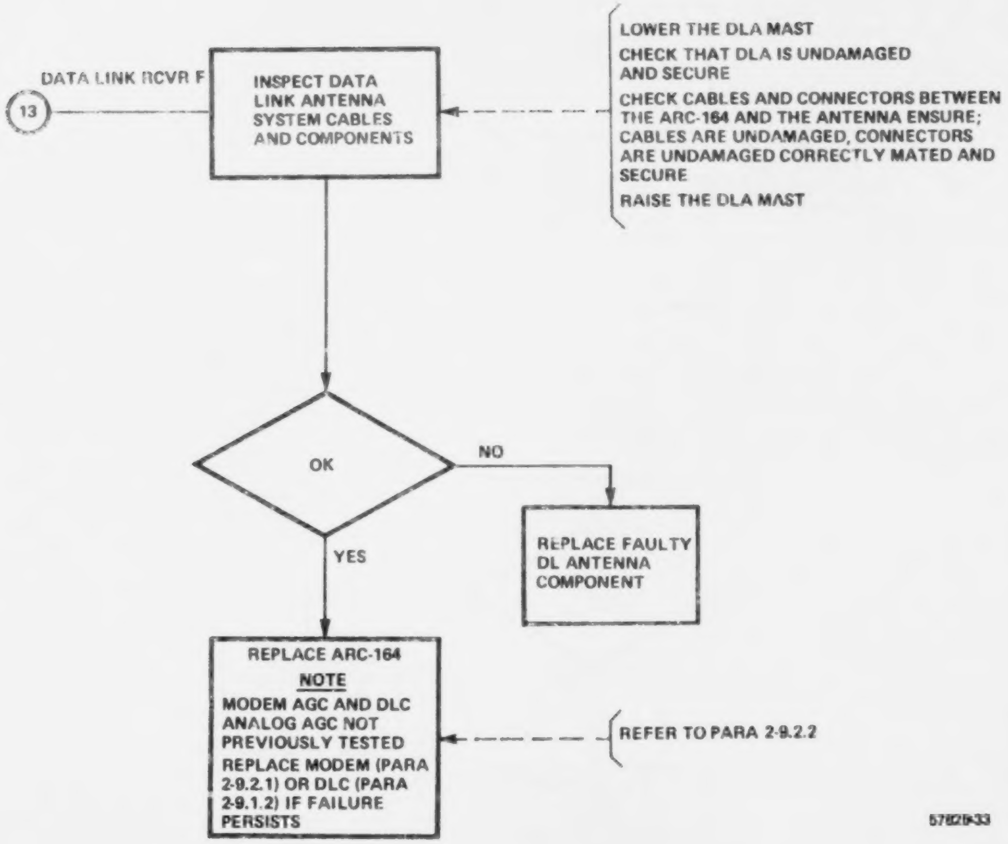

DATA LINK RCVR F
13
INSPECT DATA LINK ANTENNA SYSTEM CABLES AND COMPONENTS
LOWER THE DLA MAST
CHECK THAT DLA IS UNDAMAGED AND SECURE
CHECK CABLES AND CONNECTORS BETWEEN THE ARC-164 AND THE ANTENNA ENSURE; CABLES ARE UNDAMAGED, CONNECTORS ARE UNDAMAGED CORRECTLY MATED AND SECURE
RAISE THE DLA MAST
OK
NO
YES
REPLACE FAULTY DL ANTENNA COMPONENT
REPLACE ARC-164
NOTE
MODEM AGC AND DLC ANALOG AGC NOT PREVIOUSLY TESTED
REPLACE MODEM (PARA 2-9.2.1) OR DLC (PARA 2-9.1.2) IF FAILURE PERSISTS
REFER TO PARA 2-9.2.2
578259-33

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 33 of 93)

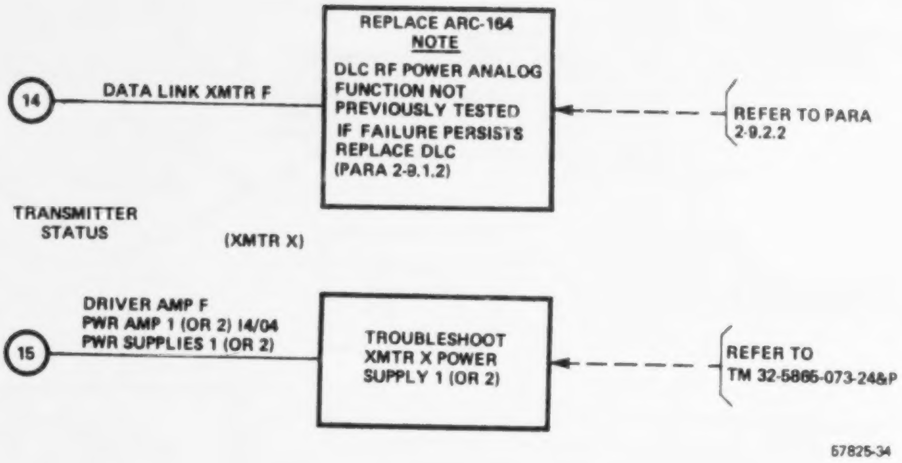
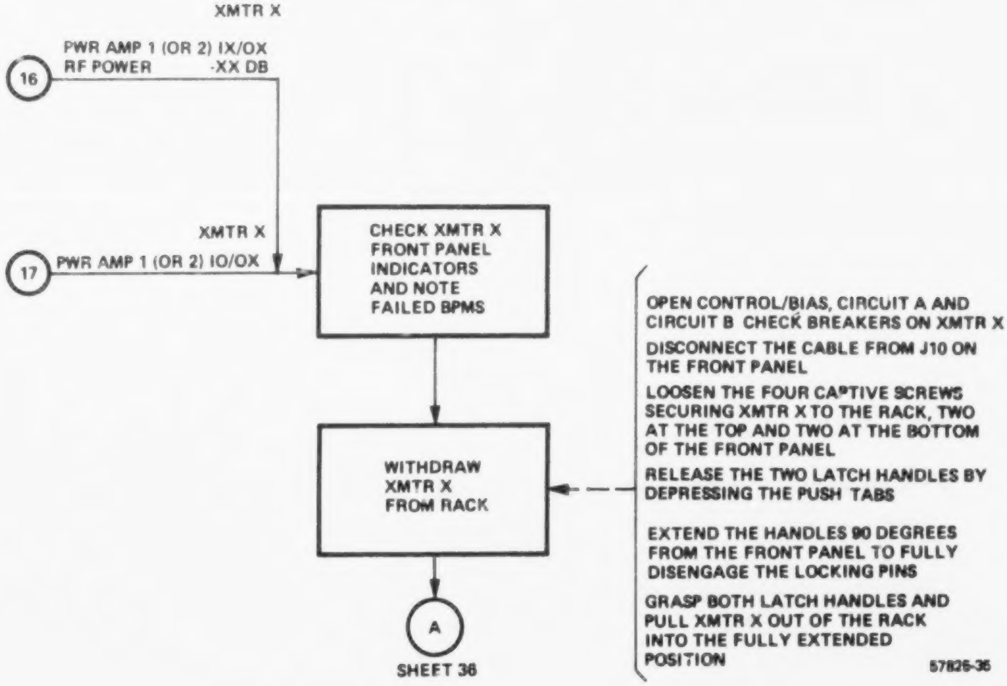


Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 34 of 93)

WARNING

HIGH VOLTAGE IS USED IN THE OPERATION OF THIS EQUIPMENT. DEATH ON CONTACT MAY RESULT IF PERSONNEL FAIL TO OBSERVE NORMAL SAFETY PRECAUTIONS. TAKE CARE NOT TO MAKE CONTACT WITH HIGH VOLTAGE CONNECTIONS WHEN CARRYING OUT THE PROCEDURES



OPEN CONTROL/BIAS, CIRCUIT A AND CIRCUIT B CHECK BREAKERS ON XMTR X

DISCONNECT THE CABLE FROM J10 ON THE FRONT PANEL

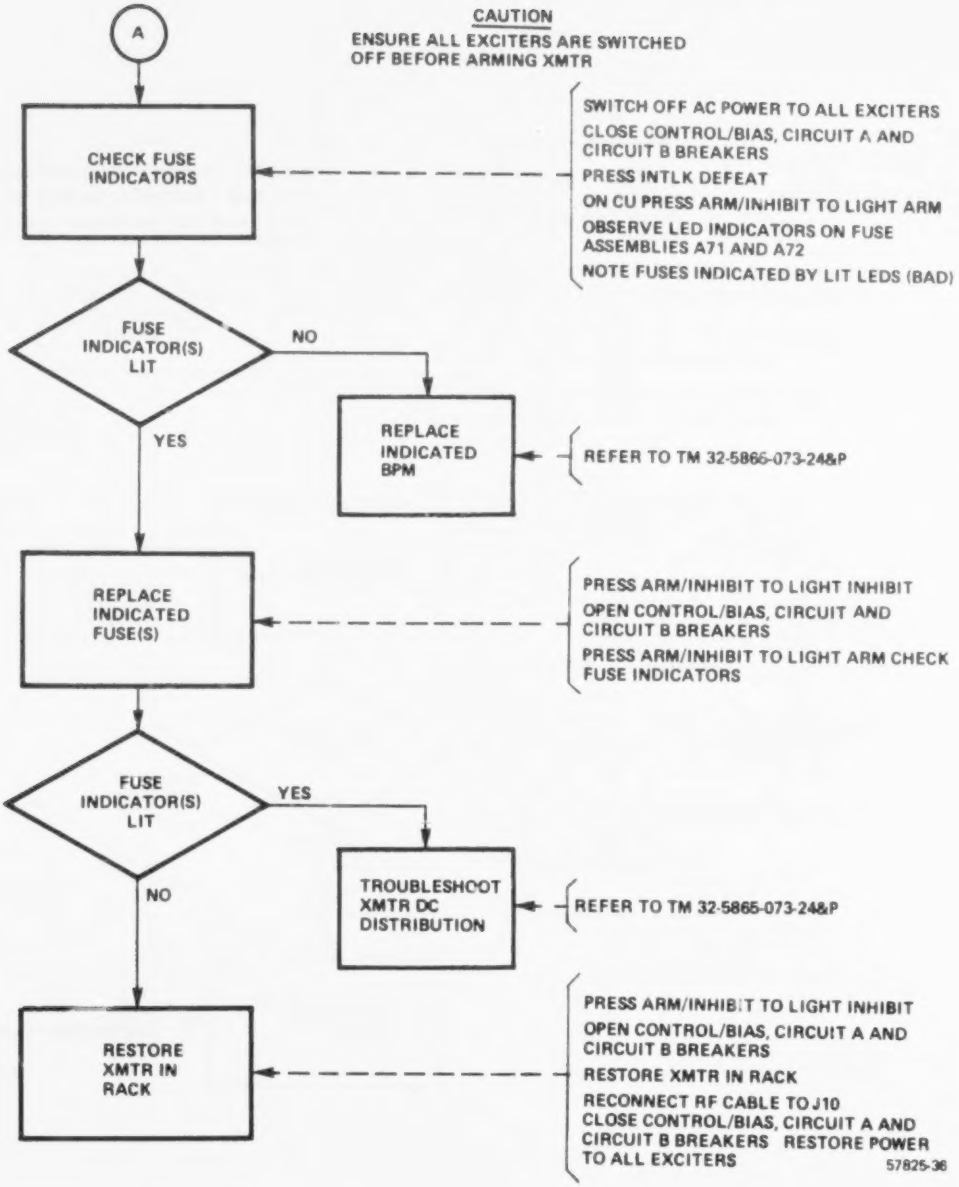
LOOSEN THE FOUR CAPTIVE SCREWS SECURING XMTR X TO THE RACK, TWO AT THE TOP AND TWO AT THE BOTTOM OF THE FRONT PANEL

RELEASE THE TWO LATCH HANDLES BY DEPRESSING THE PUSH TABS

EXTEND THE HANDLES 90 DEGREES FROM THE FRONT PANEL TO FULLY DISENGAGE THE LOCKING PINS

GRASP BOTH LATCH HANDLES AND PULL XMTR X OUT OF THE RACK INTO THE FULLY EXTENDED POSITION

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 35 of 93)



CAUTION
ENSURE ALL EXCITERS ARE SWITCHED OFF BEFORE ARMING XMTR

SWITCH OFF AC POWER TO ALL EXCITERS
CLOSE CONTROL/BIAS, CIRCUIT A AND CIRCUIT B BREAKERS
PRESS INTLK DEFEAT
ON CU PRESS ARM/INHIBIT TO LIGHT ARM
OBSERVE LED INDICATORS ON FUSE ASSEMBLIES A71 AND A72
NOTE FUSES INDICATED BY LIT LEDS (BAD)

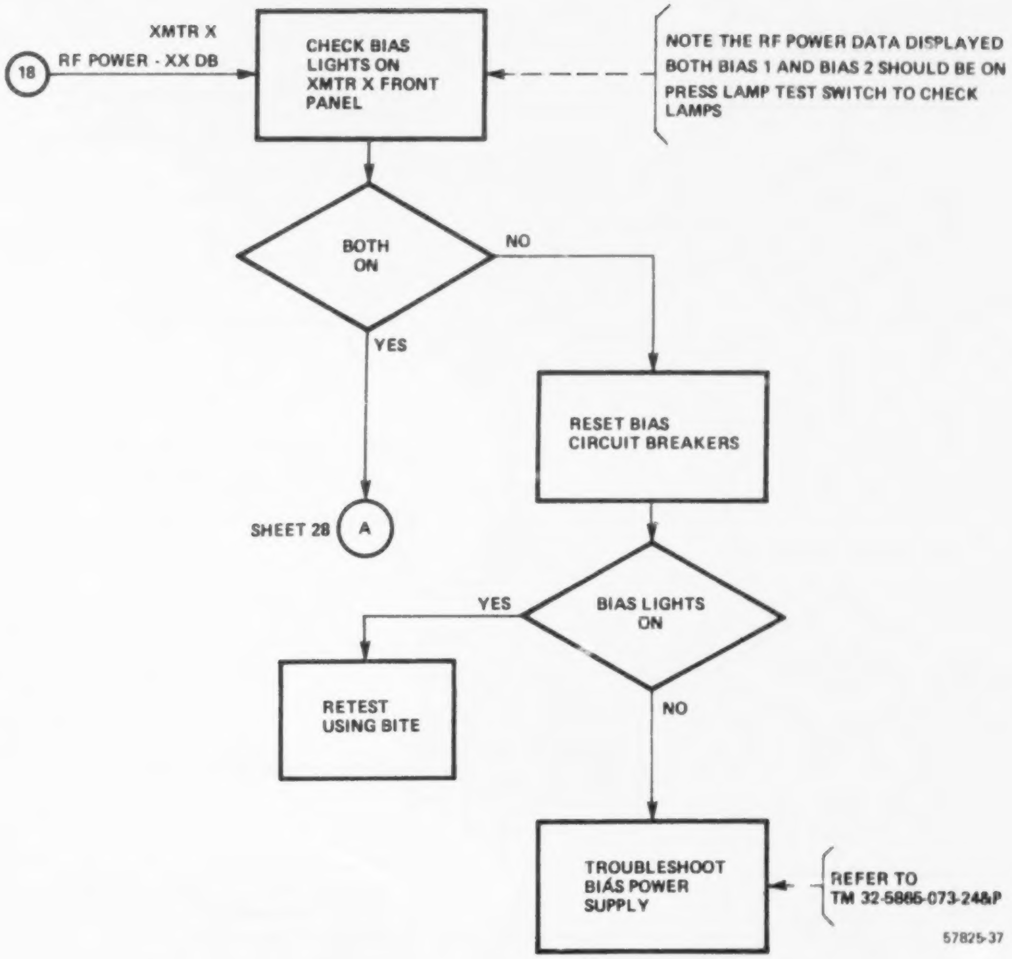
REFER TO TM 32-5865-073-24&P

PRESS ARM/INHIBIT TO LIGHT INHIBIT
OPEN CONTROL/BIAS, CIRCUIT AND CIRCUIT B BREAKERS
PRESS ARM/INHIBIT TO LIGHT ARM CHECK FUSE INDICATORS

REFER TO TM 32-5865-073-24&P

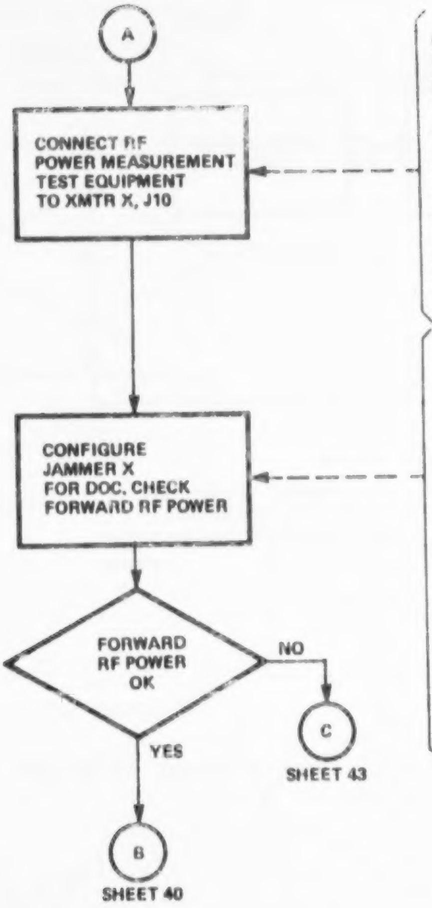
PRESS ARM/INHIBIT TO LIGHT INHIBIT
OPEN CONTROL/BIAS, CIRCUIT A AND CIRCUIT B BREAKERS
RESTORE XMTR IN RACK
RECONNECT RF CABLE TO J10
CLOSE CONTROL/BIAS, CIRCUIT A AND CIRCUIT B BREAKERS RESTORE POWER TO ALL EXCITERS

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 36 of 93)



18
XMTR X
RF POWER - XX DB
CHECK BIAS LIGHTS ON XMTR X FRONT PANEL
NOTE THE RF POWER DATA DISPLAYED
BOTH BIAS 1 AND BIAS 2 SHOULD BE ON
PRESS LAMP TEST SWITCH TO CHECK LAMPS
BOTH ON
NO
YES
SHEET 28
A
RESET BIAS CIRCUIT BREAKERS
BIAS LIGHTS ON
YES
NO
RETEST USING BITE
TROUBLESHOOT BIAS POWER SUPPLY
REFER TO TM 32-5865-073-24&P
57825-37

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 37 of 93)


A
CONNECT RF POWER MEASUREMENT TEST EQUIPMENT TO XMTR X, J10
CONFIGURE JAMMER X FOR DOC. CHECK FORWARD RF POWER
FORWARD RF POWER OK
NO
C
SHEET 43
YES
B
SHEET 40

OPEN CIRCUIT A, CIRCUIT B AND CONTROL / BIAS CKT BREAKERS ON XMTR X

DISCONNECT THE RF CABLE CONNECTED TO J10

CONNECT THE TEST EQUIPMENT AS SHOWN ON SHEET 39, RF POWER MEASUREMENT TEST SET UP

CHECK THAT ALL CONNECTORS ARE SECURE
CLOSE CONTROL/BIAS CKT BREAKER

CHECK THAT THE BIAS SUPPLY LAMPS ARE ON

CLOSE CIRCUIT A AND CIRCUIT B CKT BREAKERS

AT CU FRONT PANEL PRESS SELECT RCVR X USING THE RCDU CONTROLS, TUNE RCVR X TO THE TEST FREQUENCY. (20MHz) AT CU FRONT PANEL PRESS HOLD FOR JAMMER X

USING THE KEY BOARD, ENTER XMTR X, MOD FMNB, DEV FMNBI (REFER TO TM 32-5865-060-10), P/SEL ODB IN THE XMTR COMMAND FIELD AT THE BOTTOM OF THE TACJAM SUMMARY PAGE

PRESS EXECUTE CHANGE ON THE KEY BOARD

AT CU FRONT PANEL:

PRESS ARM/INHIBIT, JAMMER OFF FOR JAMMERS NOT UNDER TEST, ALERT/JAM FOR JAMMERS X

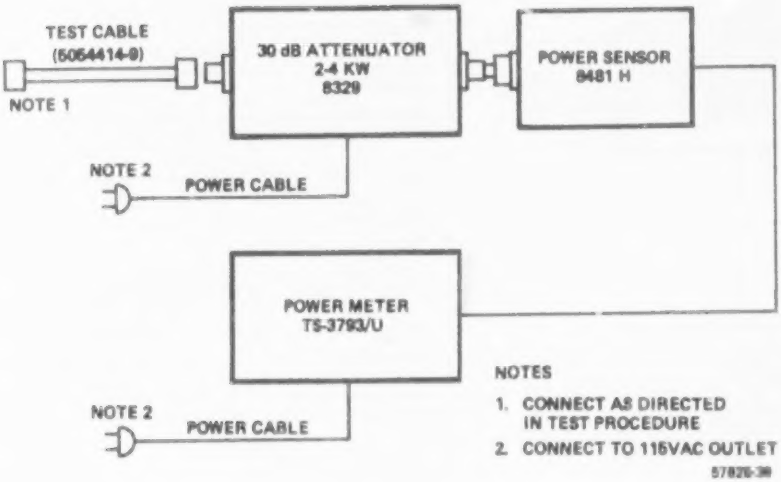
FORWARD RF POWER IS INDICATED ON THE POWER METER

MEASURED POWER SHOULD BE >P1 (REFER TO TM 32-5865-060-10) AT J10

PRESS JAMMER OFF

67825 38

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 38 of 93)



NOTES

1. CONNECT AS DIRECTED IN TEST PROCEDURE
2. CONNECT TO 115VAC OUTLET

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 39 of 93)

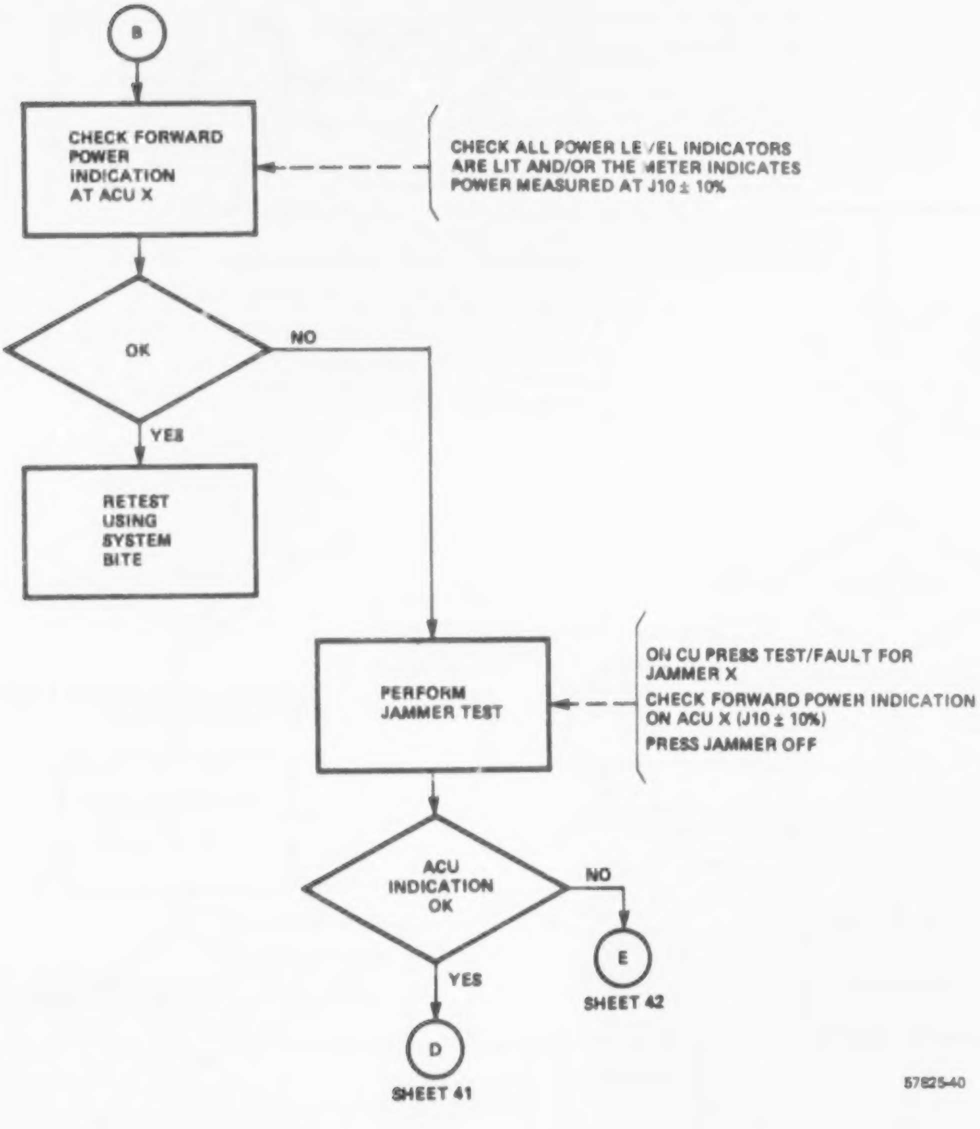
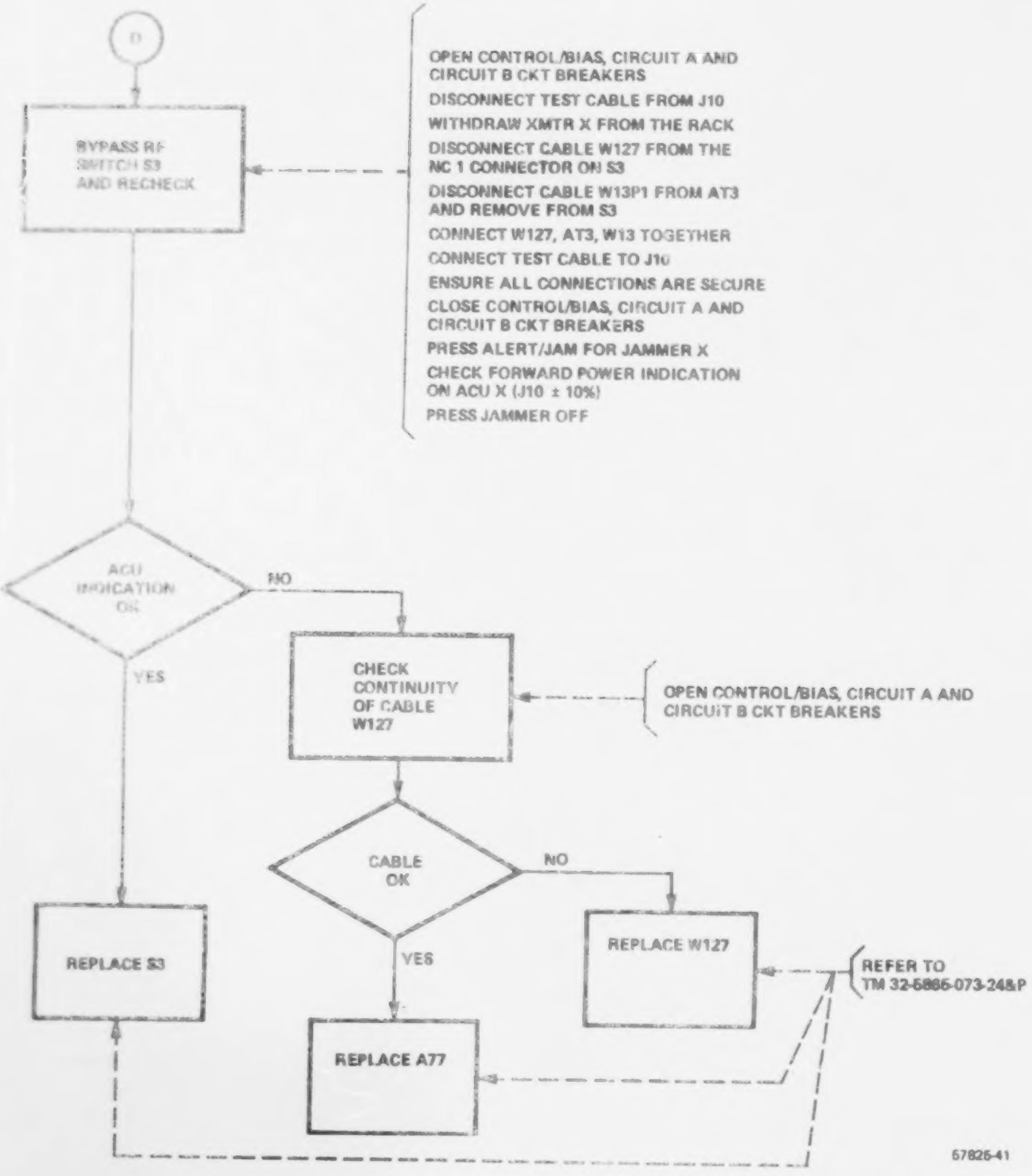

B
CHECK FORWARD POWER INDICATION AT ACU X
CHECK ALL POWER LEVEL INDICATORS ARE LIT AND/OR THE METER INDICATES POWER MEASURED AT J10 ± 10%
OK
NO
YES
RETEST USING SYSTEM BITE
PERFORM JAMMER TEST
ON CU PRESS TEST/FAULT FOR JAMMER X
CHECK FORWARD POWER INDICATION ON ACU X (J10 ± 10%)
PRESS JAMMER OFF
ACU INDICATION OK
NO
E
SHEET 42
YES
D
SHEET 41
57825-40

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 40 of 93)



OPEN CONTROL/BIAS, CIRCUIT A AND CIRCUIT B CKT BREAKERS
DISCONNECT TEST CABLE FROM J10
WITHDRAW XMTR X FROM THE RACK
DISCONNECT CABLE W127 FROM THE NC 1 CONNECTOR ON S3
DISCONNECT CABLE W13P1 FROM AT3 AND REMOVE FROM S3
CONNECT W127, AT3, W13 TOGETHER
CONNECT TEST CABLE TO J10
ENSURE ALL CONNECTIONS ARE SECURE
CLOSE CONTROL/BIAS, CIRCUIT A AND CIRCUIT B CKT BREAKERS
PRESS ALERT/JAM FOR JAMMER X
CHECK FORWARD POWER INDICATION ON ACU X (J10 ± 10%)
PRESS JAMMER OFF

OPEN CONTROL/BIAS, CIRCUIT A AND CIRCUIT B CKT BREAKERS

REFER TO TM 32-5865-073-24&P

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 41 of 93)

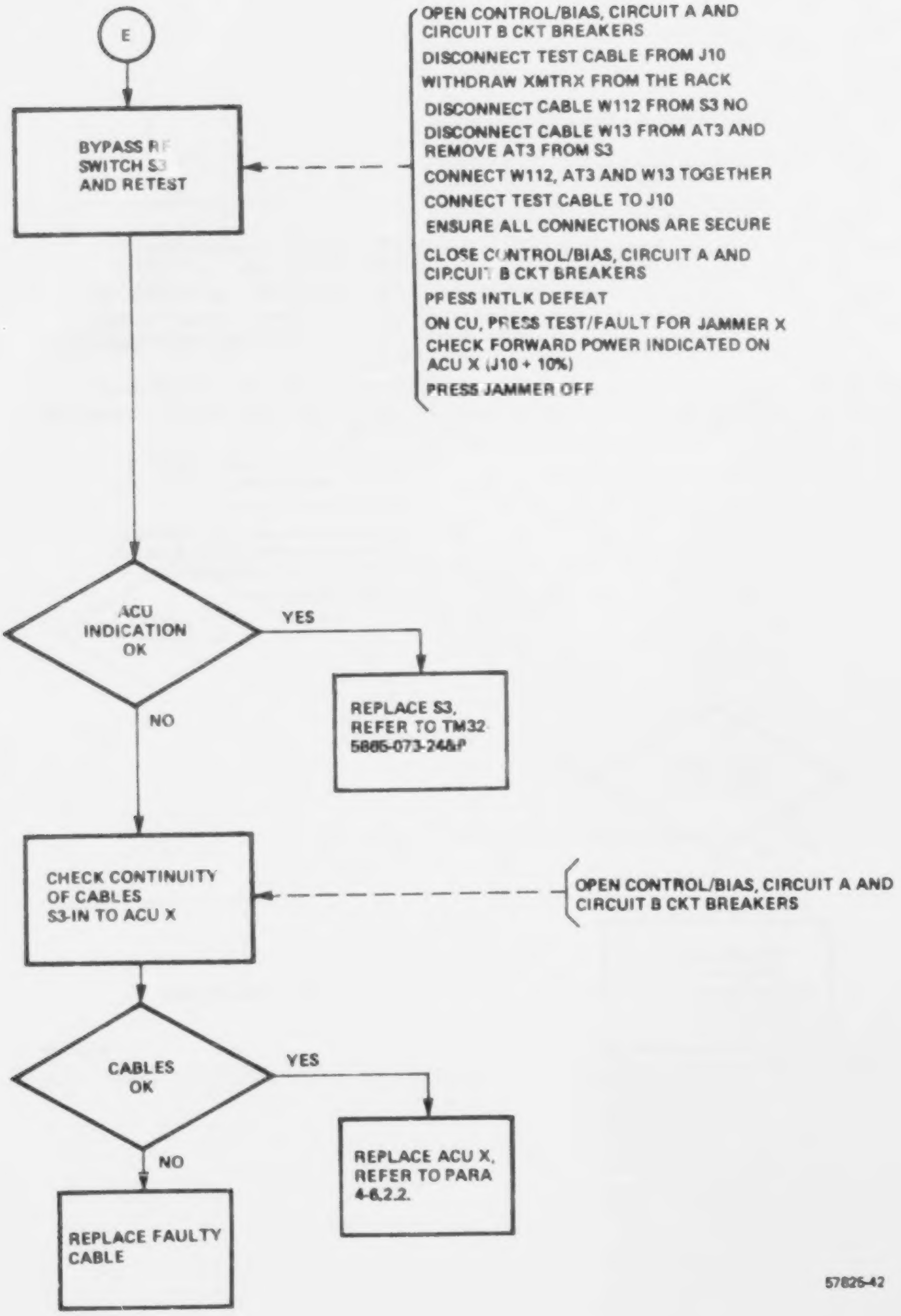
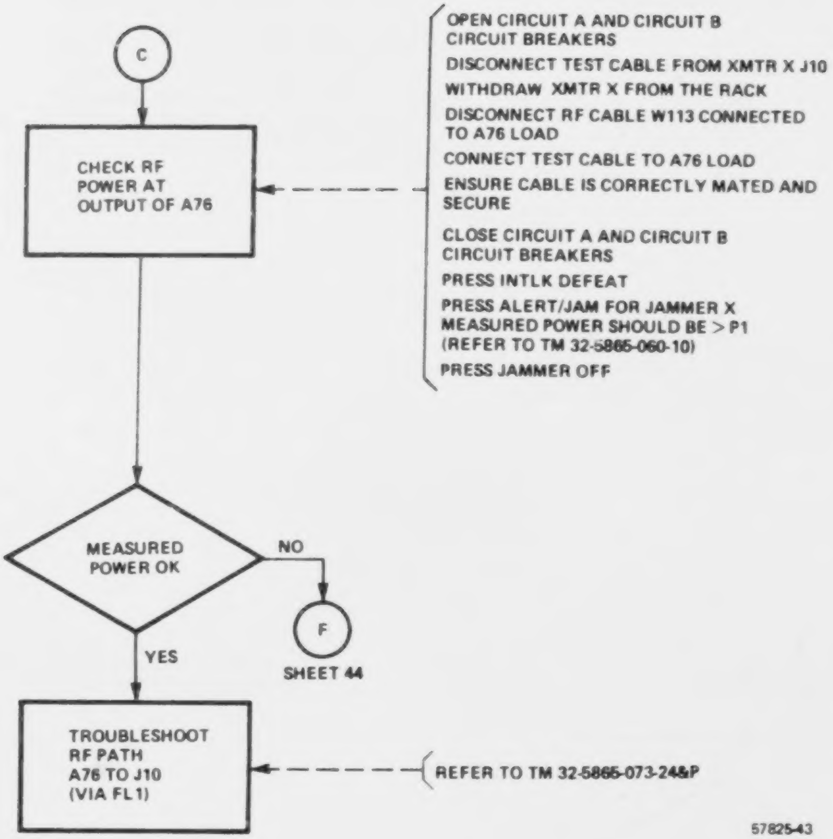

E
BYPASS RF SWITCH S3 AND RETEST
OPEN CONTROL/BIAS, CIRCUIT A AND CIRCUIT B CKT BREAKERS
DISCONNECT TEST CABLE FROM J10
WITHDRAW XMTRX FROM THE RACK
DISCONNECT CABLE W112 FROM S3 NO
DISCONNECT CABLE W13 FROM AT3 AND REMOVE AT3 FROM S3
CONNECT W112, AT3 AND W13 TOGETHER
CONNECT TEST CABLE TO J10
ENSURE ALL CONNECTIONS ARE SECURE
CLOSE CONTROL/BIAS, CIRCUIT A AND CIRCUIT B CKT BREAKERS
PRESS INTLK DEFEAT
ON CU, PRESS TEST/FAULT FOR JAMMER X
CHECK FORWARD POWER INDICATED ON ACU X (J10 + 10%)
PRESS JAMMER OFF
ACU INDICATION OK
YES
REPLACE S3, REFER TO TM32-5865-073-24&P
NO
CHECK CONTINUITY OF CABLES S3-IN TO ACU X
OPEN CONTROL/BIAS, CIRCUIT A AND CIRCUIT B CKT BREAKERS
CABLES OK
YES
REPLACE ACU X, REFER TO PARA 4-6.2.2.
NO
REPLACE FAULTY CABLE
57826-42

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 42 of 93)


C
CHECK RF POWER AT OUTPUT OF A76
MEASURED POWER OK
NO
F
SHEET 44
YES
TROUBLESHOOT RF PATH A76 TO J10 (VIA FL1)
57825-43

OPEN CIRCUIT A AND CIRCUIT B CIRCUIT BREAKERS

DISCONNECT TEST CABLE FROM XMTR X J10

WITHDRAW XMTR X FROM THE RACK

DISCONNECT RF CABLE W113 CONNECTED TO A76 LOAD

CONNECT TEST CABLE TO A76 LOAD

ENSURE CABLE IS CORRECTLY MATED AND SECURE

CLOSE CIRCUIT A AND CIRCUIT B CIRCUIT BREAKERS

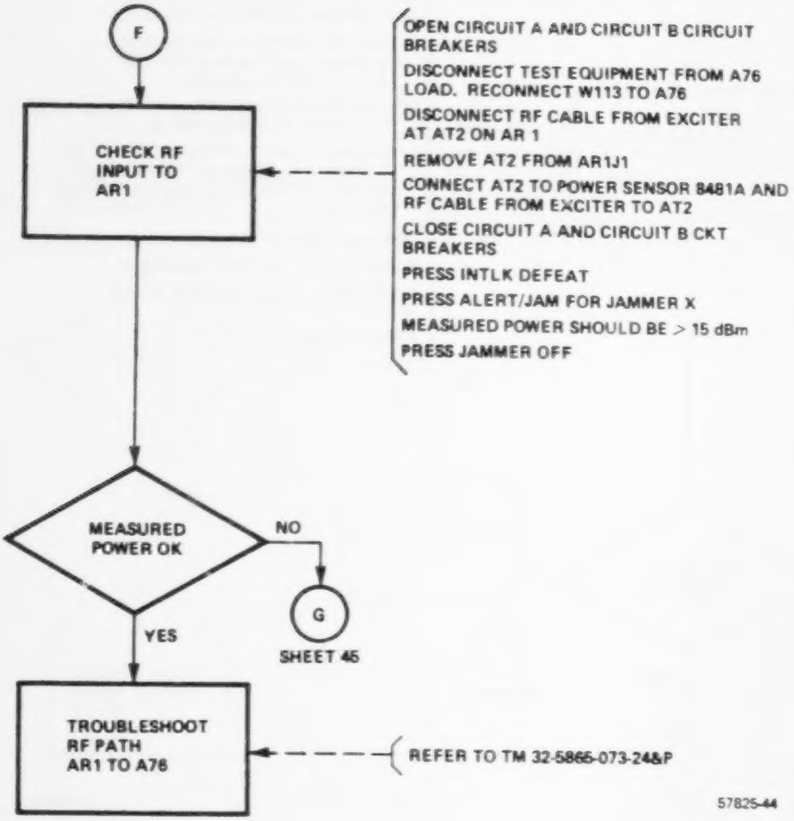
PRESS INTLK DEFEAT

PRESS ALERT/JAM FOR JAMMER X MEASURED POWER SHOULD BE > P1 (REFER TO TM 32-5865-060-10)

PRESS JAMMER OFF

REFER TO TM 32-5865-073-24&P

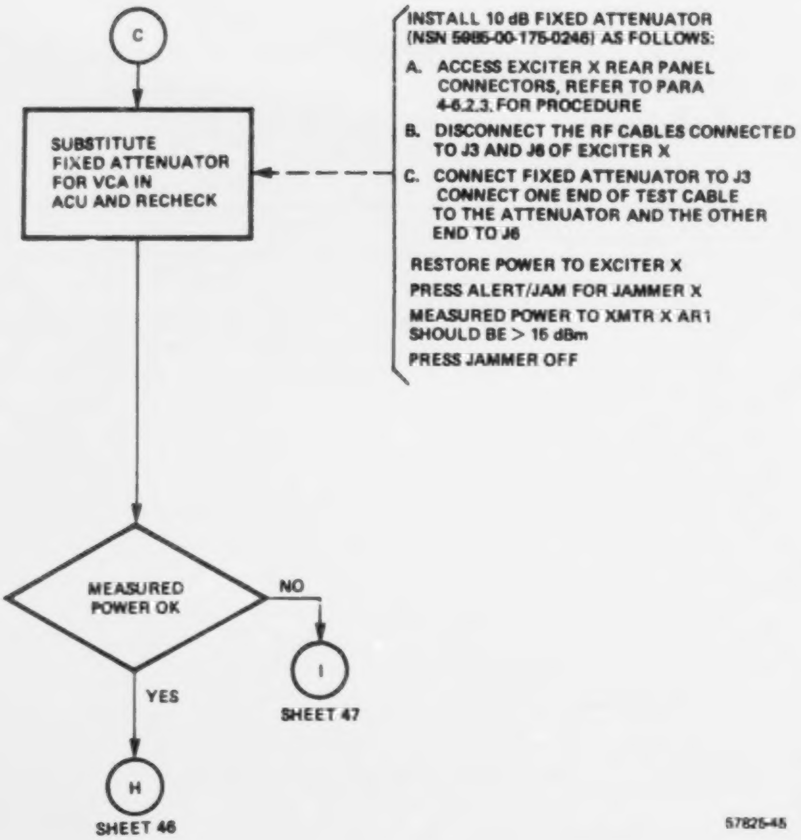
Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 43 of 93)



OPEN CIRCUIT A AND CIRCUIT B CIRCUIT BREAKERS
DISCONNECT TEST EQUIPMENT FROM A76 LOAD. RECONNECT W113 TO A76
DISCONNECT RF CABLE FROM EXCITER AT AT2 ON AR 1
REMOVE AT2 FROM AR1J1
CONNECT AT2 TO POWER SENSOR 8481A AND RF CABLE FROM EXCITER TO AT2
CLOSE CIRCUIT A AND CIRCUIT B CKT BREAKERS
PRESS INTLK DEFEAT
PRESS ALERT/JAM FOR JAMMER X
MEASURED POWER SHOULD BE > 15 dBm
PRESS JAMMER OFF

REFER TO TM 32-5865-073-24&P

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 44 of 93)



INSTALL 10 dB FIXED ATTENUATOR (NSN 5985-00-175-0246) AS FOLLOWS:

A. ACCESS EXCITER X REAR PANEL CONNECTORS, REFER TO PARA 4-6.2.3. FOR PROCEDURE

B. DISCONNECT THE RF CABLES CONNECTED TO J3 AND J6 OF EXCITER X

C. CONNECT FIXED ATTENUATOR TO J3 CONNECT ONE END OF TEST CABLE TO THE ATTENUATOR AND THE OTHER END TO J6

RESTORE POWER TO EXCITER X

PRESS ALERT/JAM FOR JAMMER X

MEASURED POWER TO XMTR X AR1 SHOULD BE > 15 dBm

PRESS JAMMER OFF

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 45 of 93)

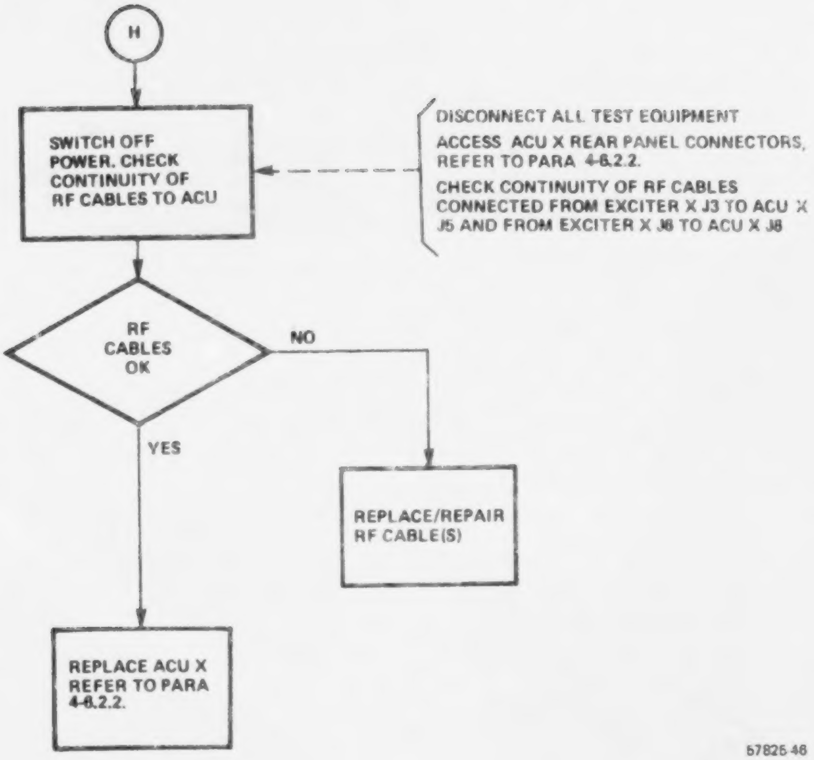

H
SWITCH OFF POWER. CHECK CONTINUITY OF RF CABLES TO ACU
DISCONNECT ALL TEST EQUIPMENT
ACCESS ACU X REAR PANEL CONNECTORS, REFER TO PARA 4-6.2.2.
CHECK CONTINUITY OF RF CABLES CONNECTED FROM EXCITER X J3 TO ACU X J5 AND FROM EXCITER X J8 TO ACU X J8
RF CABLES OK
NO
YES
REPLACE/REPAIR RF CABLE(S)
REPLACE ACU X REFER TO PARA 4-6.2.2.
57825-46

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 46 of 93)

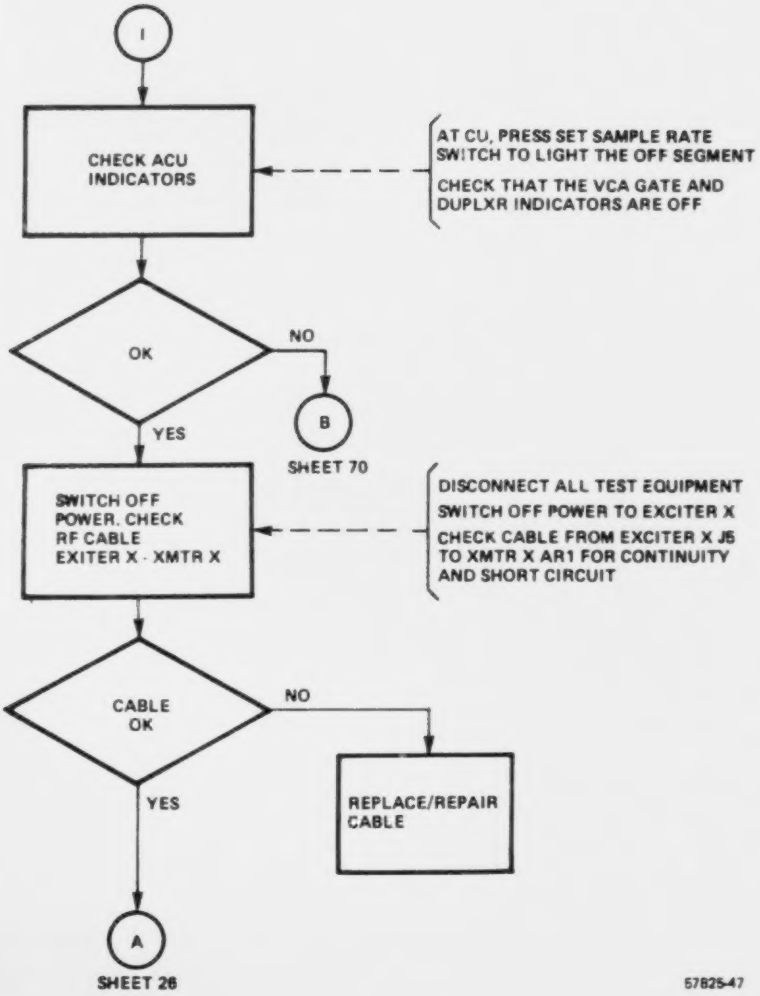
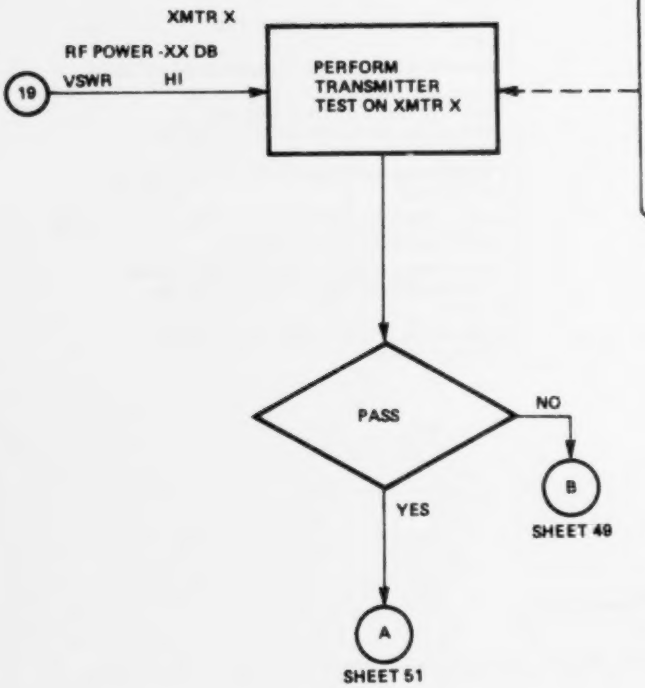

I
CHECK ACU INDICATORS
AT CU, PRESS SET SAMPLE RATE SWITCH TO LIGHT THE OFF SEGMENT
CHECK THAT THE VCA GATE AND DUPLXR INDICATORS ARE OFF
OK
NO
B
SHEET 70
YES
SWITCH OFF POWER. CHECK RF CABLE EXITER X - XMTR X
DISCONNECT ALL TEST EQUIPMENT
SWITCH OFF POWER TO EXCITER X
CHECK CABLE FROM EXCITER X J5 TO XMTR X AR1 FOR CONTINUITY AND SHORT CIRCUIT
CABLE OK
NO
REPLACE/REPAIR CABLE
YES
A
SHEET 26
57825-47

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 47 of 93)



ON CU FRONT PANEL;

PRESS ARM/INHIBIT, VERIFY ARM LIGHT IS ON

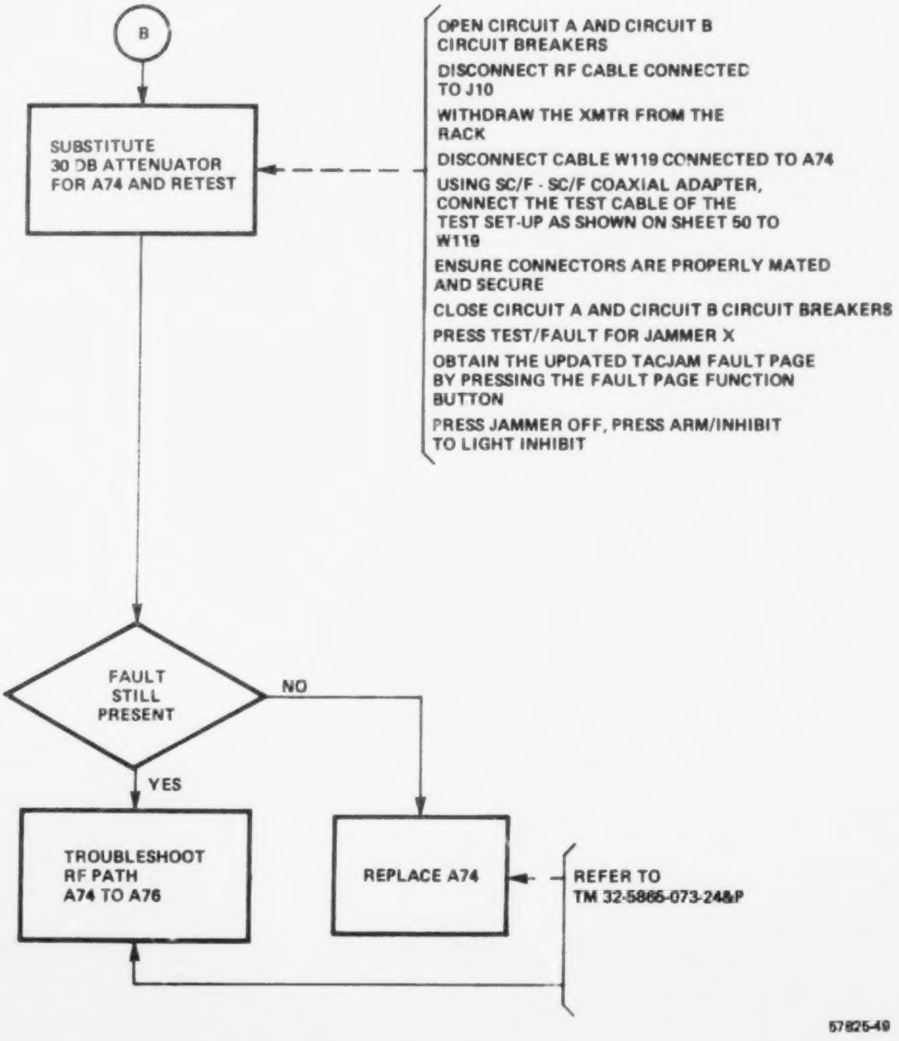
FOR JAMMER X, PRESS SELECT RCVR X PRESS HOLD, PRESS TEST/FAULT

THE JAMMER IS SWITCHED ON WITH POWER ABSORBED BY AN INTERNAL DUMMY LOAD

FAULT LAMP GOES OUT TO INDICATE A SUCCESSFUL TEST (PASS) AFTER TESTING (10 TO 15 SECONDS IS ADEQUATE TIME) PRESS JAMMER OFF

57825-48

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 48 of 93)


B
SUBSTITUTE 30 DB ATTENUATOR FOR A74 AND RETEST
FAULT STILL PRESENT
NO
YES
TROUBLESHOOT RF PATH A74 TO A76
REPLACE A74
57825-49

OPEN CIRCUIT A AND CIRCUIT B CIRCUIT BREAKERS
DISCONNECT RF CABLE CONNECTED TO J10
WITHDRAW THE XMTR FROM THE RACK
DISCONNECT CABLE W119 CONNECTED TO A74
USING SC/F - SC/F COAXIAL ADAPTER, CONNECT THE TEST CABLE OF THE TEST SET-UP AS SHOWN ON SHEET 50 TO W119
ENSURE CONNECTORS ARE PROPERLY MATED AND SECURE
CLOSE CIRCUIT A AND CIRCUIT B CIRCUIT BREAKERS
PRESS TEST/FAULT FOR JAMMER X
OBTAIN THE UPDATED TACJAM FAULT PAGE BY PRESSING THE FAULT PAGE FUNCTION BUTTON
PRESS JAMMER OFF, PRESS ARM/INHIBIT TO LIGHT INHIBIT

REFER TO TM 32-5865-073-24&P

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 49 of 93)

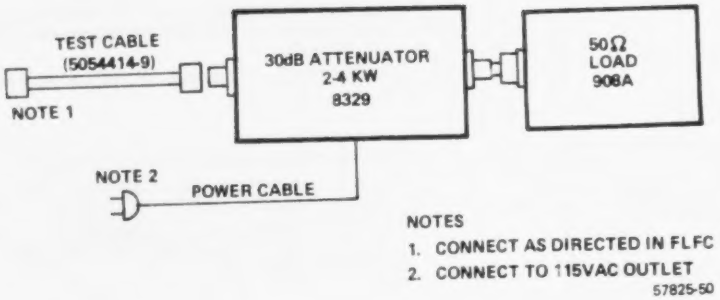
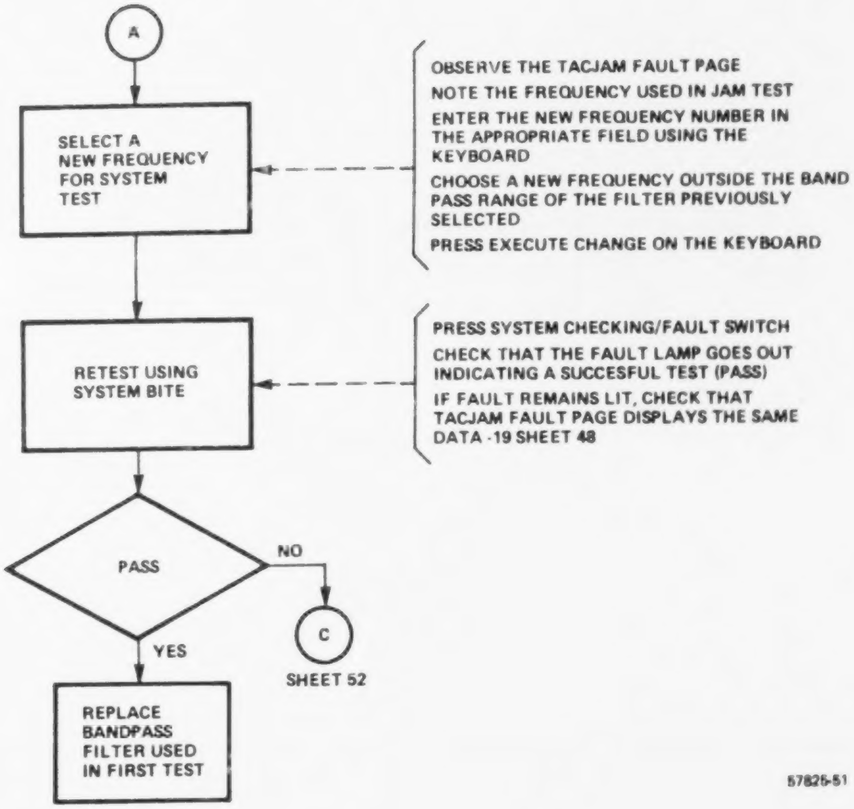


Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 50 of 93)


A
SELECT A NEW FREQUENCY FOR SYSTEM TEST
RETEST USING SYSTEM BITE
PASS
NO
YES
C
SHEET 52
REPLACE BANDPASS FILTER USED IN FIRST TEST
57825-51

OBSERVE THE TACJAM FAULT PAGE

NOTE THE FREQUENCY USED IN JAM TEST

ENTER THE NEW FREQUENCY NUMBER IN THE APPROPRIATE FIELD USING THE KEYBOARD

CHOOSE A NEW FREQUENCY OUTSIDE THE BAND PASS RANGE OF THE FILTER PREVIOUSLY SELECTED

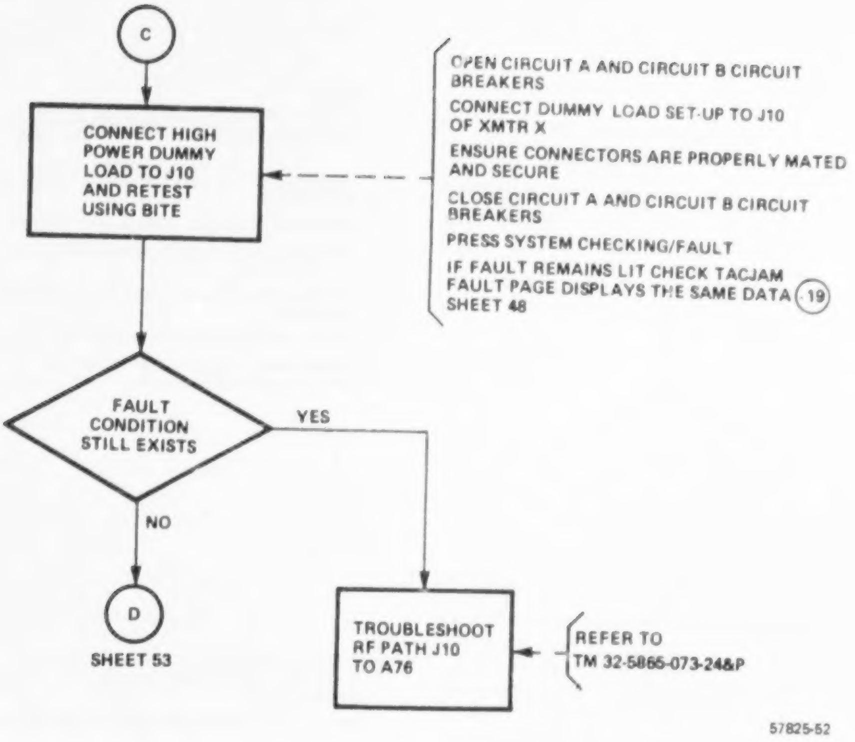
PRESS EXECUTE CHANGE ON THE KEYBOARD

PRESS SYSTEM CHECKING/FAULT SWITCH

CHECK THAT THE FAULT LAMP GOES OUT INDICATING A SUCCESFUL TEST (PASS)

IF FAULT REMAINS LIT, CHECK THAT TACJAM FAULT PAGE DISPLAYS THE SAME DATA -19 SHEET 48

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 51 of 93)


C
CONNECT HIGH POWER DUMMY LOAD TO J10 AND RETEST USING BITE
FAULT CONDITION STILL EXISTS
YES
NO
D
SHEET 53
TROUBLESHOOT RF PATH J10 TO A76
19
57825-52

OPEN CIRCUIT A AND CIRCUIT B CIRCUIT BREAKERS

CONNECT DUMMY LOAD SET-UP TO J10 OF XMTR X

ENSURE CONNECTORS ARE PROPERLY MATED AND SECURE

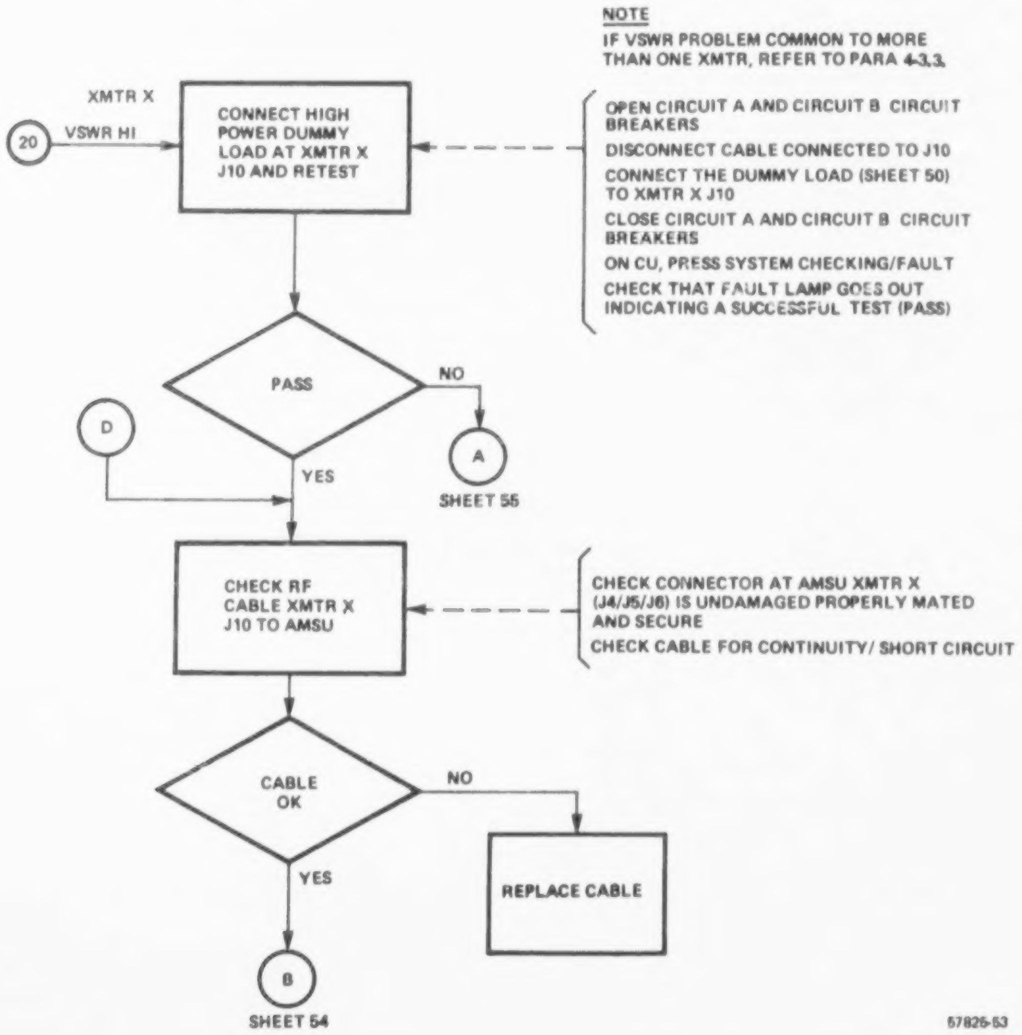
CLOSE CIRCUIT A AND CIRCUIT B CIRCUIT BREAKERS

PRESS SYSTEM CHECKING/FAULT

IF FAULT REMAINS LIT CHECK TACJAM FAULT PAGE DISPLAYS THE SAME DATA ⑲ SHEET 48

REFER TO TM 32-5865-073-24&P

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 52 of 93)


XMTR X
VSWR HI
20
CONNECT HIGH POWER DUMMY LOAD AT XMTR X J10 AND RETEST
PASS
NO
A
SHEET 55
D
YES
CHECK RF CABLE XMTR X J10 TO AMSU
CABLE OK
NO
REPLACE CABLE
YES
B
SHEET 54
57826-53

NOTE

IF VSWR PROBLEM COMMON TO MORE THAN ONE XMTR, REFER TO PARA 4-3.3.

OPEN CIRCUIT A AND CIRCUIT B CIRCUIT BREAKERS

DISCONNECT CABLE CONNECTED TO J10

CONNECT THE DUMMY LOAD (SHEET 50) TO XMTR X J10

CLOSE CIRCUIT A AND CIRCUIT B CIRCUIT BREAKERS

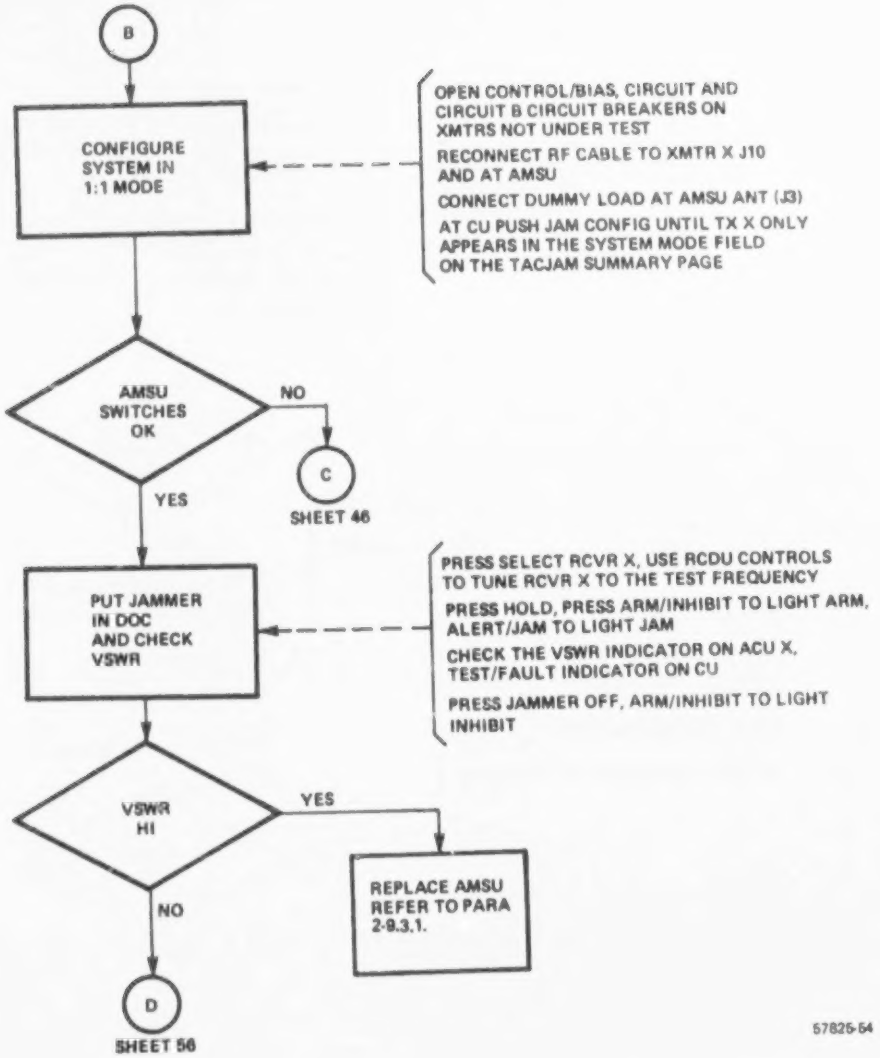
ON CU, PRESS SYSTEM CHECKING/FAULT

CHECK THAT FAULT LAMP GOES OUT INDICATING A SUCCESSFUL TEST (PASS)

CHECK CONNECTOR AT AMSU XMTR X (J4/J5/J6) IS UNDAMAGED PROPERLY MATED AND SECURE

CHECK CABLE FOR CONTINUITY/ SHORT CIRCUIT

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 53 of 93)


B
CONFIGURE SYSTEM IN 1:1 MODE
AMSU SWITCHES OK
NO
C
SHEET 46
YES
PUT JAMMER IN DOC AND CHECK VSWR
VSWR HI
YES
REPLACE AMSU REFER TO PARA 2-9.3.1.
NO
D
SHEET 56
57825-54

OPEN CONTROL/BIAS, CIRCUIT AND CIRCUIT B CIRCUIT BREAKERS ON XMTRS NOT UNDER TEST

RECONNECT RF CABLE TO XMTR X J10 AND AT AMSU

CONNECT DUMMY LOAD AT AMSU ANT (J3)

AT CU PUSH JAM CONFIG UNTIL TX X ONLY APPEARS IN THE SYSTEM MODE FIELD ON THE TACJAM SUMMARY PAGE

PRESS SELECT RCVR X, USE RCDU CONTROLS TO TUNE RCVR X TO THE TEST FREQUENCY

PRESS HOLD, PRESS ARM/INHIBIT TO LIGHT ARM, ALERT/JAM TO LIGHT JAM

CHECK THE VSWR INDICATOR ON ACU X, TEST/FAULT INDICATOR ON CU

PRESS JAMMER OFF, ARM/INHIBIT TO LIGHT INHIBIT

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 54 of 93)

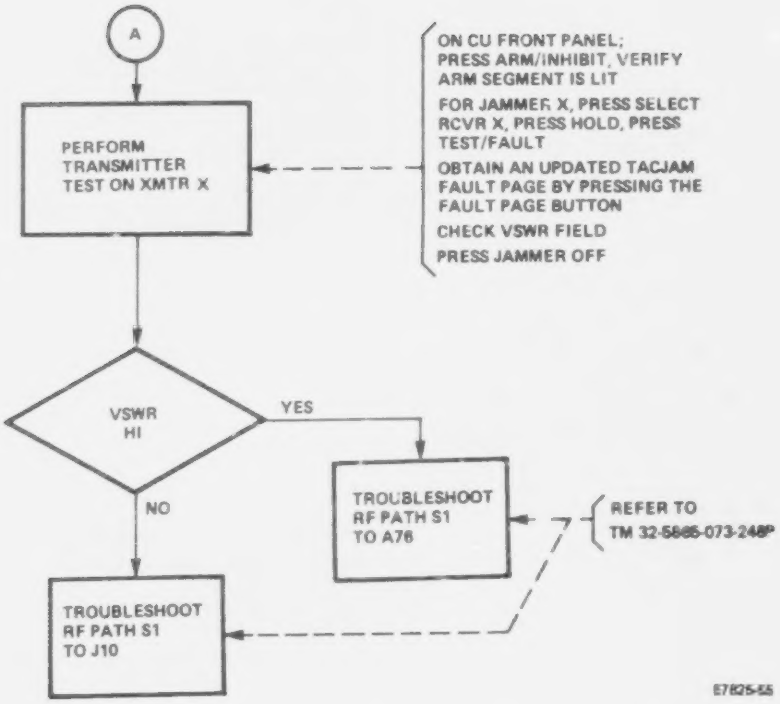
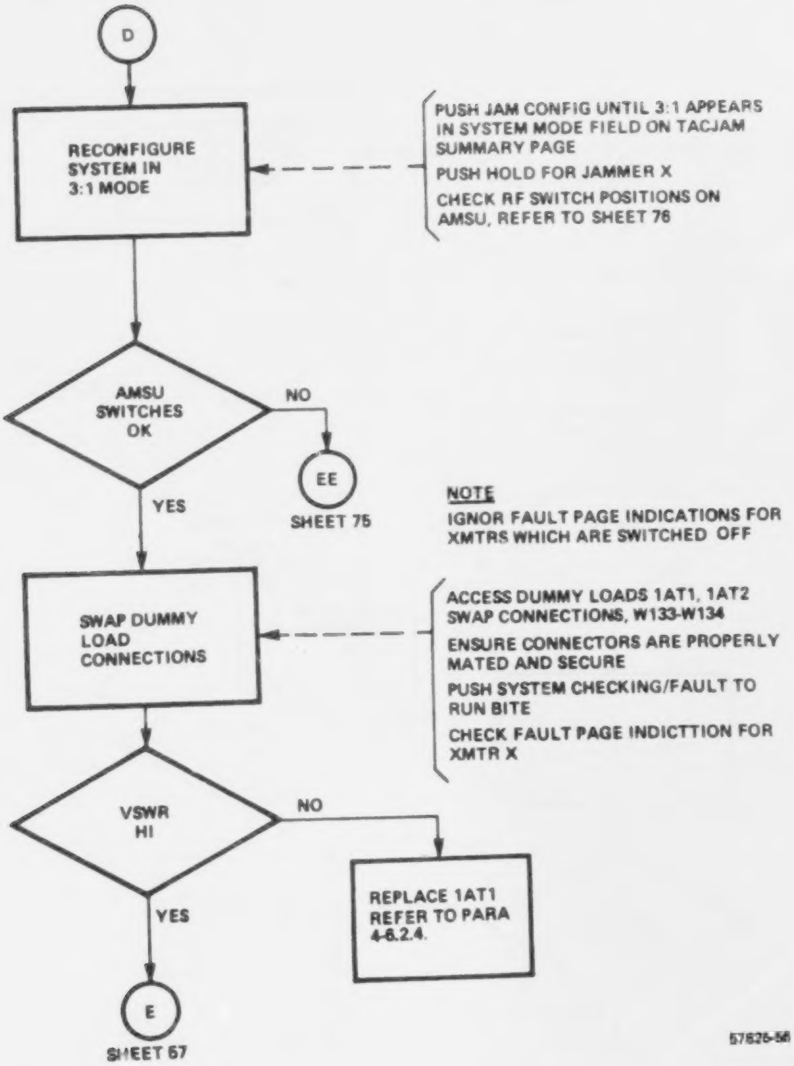

A
PERFORM TRANSMITTER TEST ON XMTR X
ON CU FRONT PANEL; PRESS ARM/INHIBIT, VERIFY ARM SEGMENT IS LIT
FOR JAMMER X, PRESS SELECT RCVR X, PRESS HOLD, PRESS TEST/FAULT
OBTAIN AN UPDATED TACJAM FAULT PAGE BY PRESSING THE FAULT PAGE BUTTON
CHECK VSWR FIELD
PRESS JAMMER OFF
VSWR HI
YES
NO
TROUBLESHOOT RF PATH S1 TO A76
REFER TO TM 32-5865-073-24&P
TROUBLESHOOT RF PATH S1 TO J10
E7825-55

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 55 of 93)


D
RECONFIGURE SYSTEM IN 3:1 MODE
AMSU SWITCHES OK
NO
EE
SHEET 75
YES
SWAP DUMMY LOAD CONNECTIONS
VSWR HI
NO
REPLACE 1AT1 REFER TO PARA 4-8.2.4.
YES
E
SHEET 67
57626-56

PUSH JAM CONFIG UNTIL 3:1 APPEARS IN SYSTEM MODE FIELD ON TACJAM SUMMARY PAGE

PUSH HOLD FOR JAMMER X

CHECK RF SWITCH POSITIONS ON AMSU, REFER TO SHEET 76

NOTE

IGNOR FAULT PAGE INDICATIONS FOR XMTRS WHICH ARE SWITCHED OFF

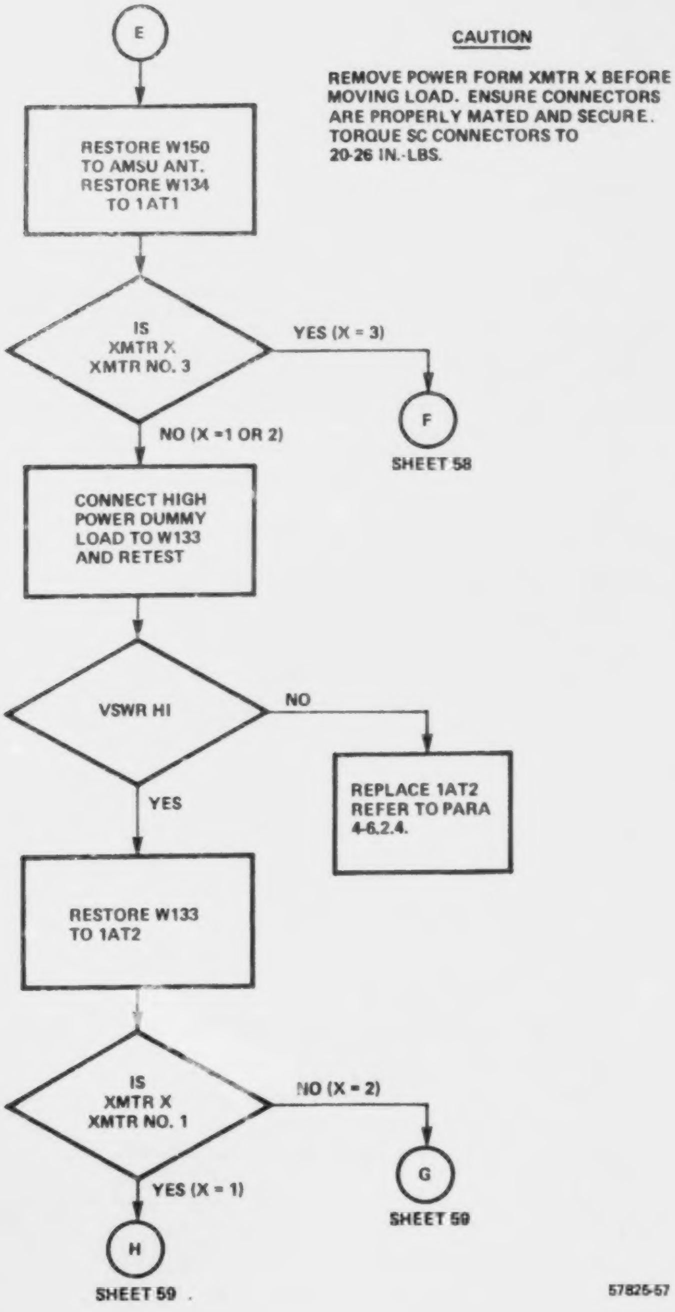
ACCESS DUMMY LOADS 1AT1, 1AT2 SWAP CONNECTIONS, W133-W134

ENSURE CONNECTORS ARE PROPERLY MATED AND SECURE

PUSH SYSTEM CHECKING/FAULT TO RUN BITE

CHECK FAULT PAGE INDICTTION FOR XMTR X

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 56 of 93)



CAUTION

REMOVE POWER FORM XMTR X BEFORE MOVING LOAD. ENSURE CONNECTORS ARE PROPERLY MATED AND SECURE. TORQUE SC CONNECTORS TO 20-26 IN.-LBS.

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 57 of 93)

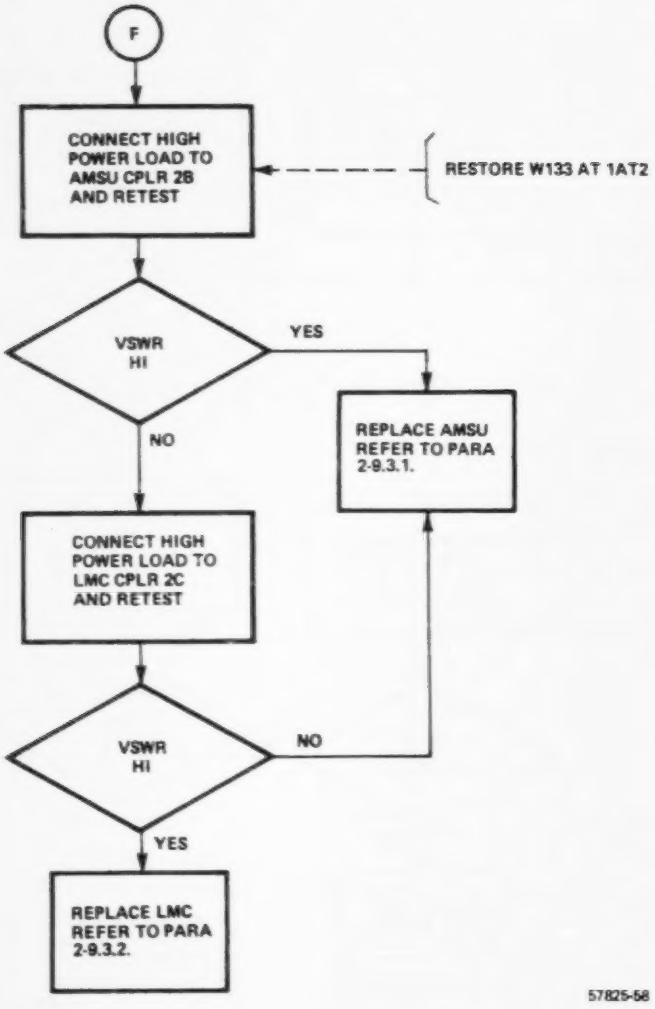

F
CONNECT HIGH POWER LOAD TO AMSU CPLR 2B AND RETEST
RESTORE W133 AT 1AT2
VSWR HI
YES
NO
REPLACE AMSU REFER TO PARA 2-9.3.1.
CONNECT HIGH POWER LOAD TO LMC CPLR 2C AND RETEST
VSWR HI
NO
YES
REPLACE LMC REFER TO PARA 2-9.3.2.
57825-58

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 58 of 93)

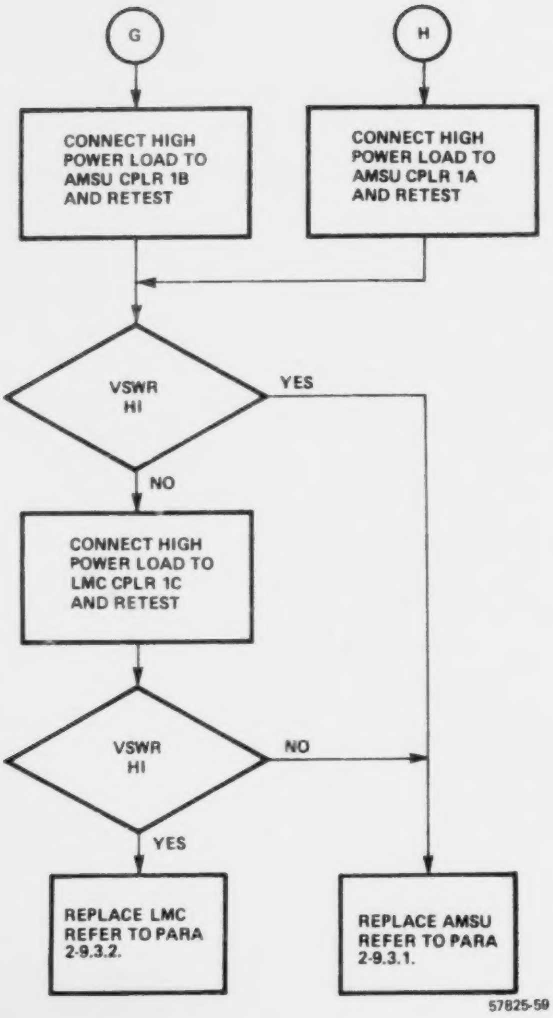
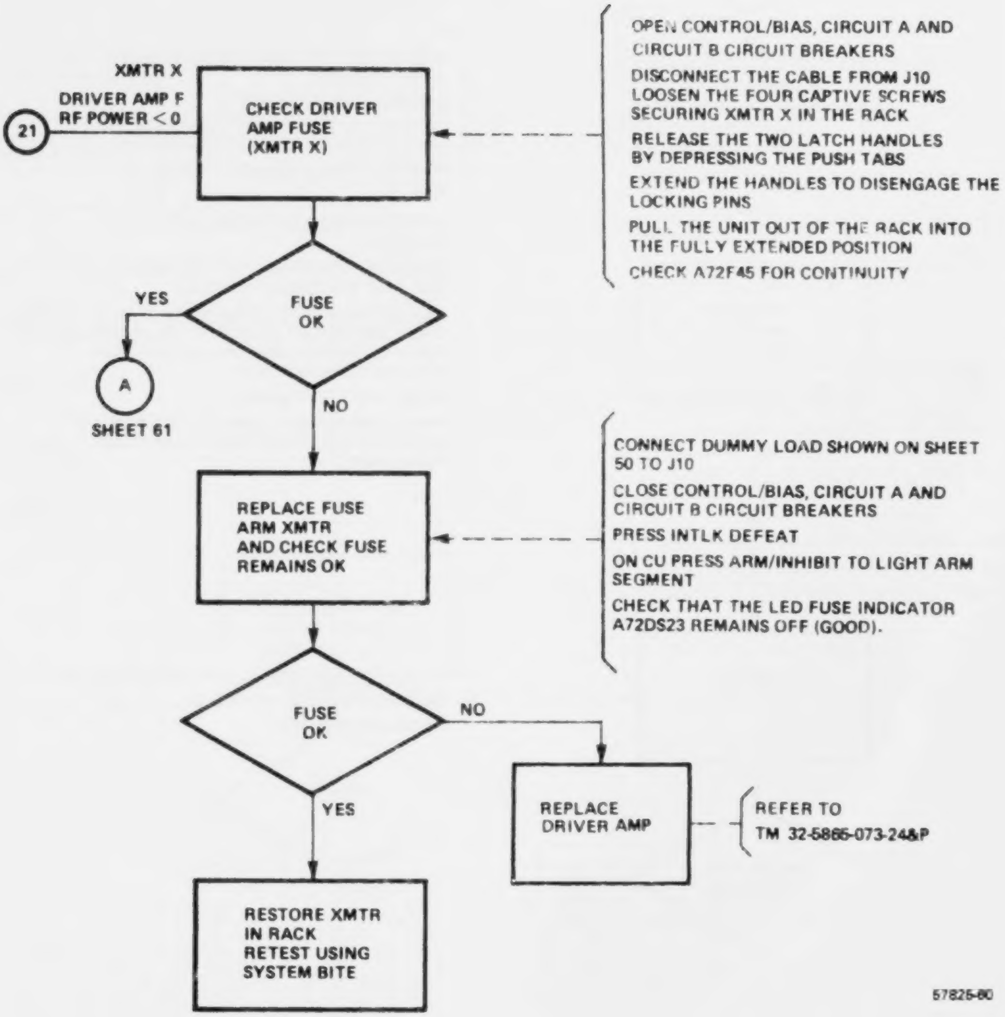

G
H
CONNECT HIGH POWER LOAD TO AMSU CPLR 1B AND RETEST
CONNECT HIGH POWER LOAD TO AMSU CPLR 1A AND RETEST
VSWR HI
YES
NO
CONNECT HIGH POWER LOAD TO LMC CPLR 1C AND RETEST
VSWR HI
NO
YES
REPLACE LMC REFER TO PARA 2-9.3.2.
REPLACE AMSU REFER TO PARA 2-9.3.1.
57825-59

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 59 of 93)


XMTR X
DRIVER AMP F
RF POWER < 0
21
CHECK DRIVER AMP FUSE (XMTR X)
FUSE OK
YES
A
SHEET 61
NO
REPLACE FUSE ARM XMTR AND CHECK FUSE REMAINS OK
FUSE OK
NO
YES
REPLACE DRIVER AMP
RESTORE XMTR IN RACK RETEST USING SYSTEM BITE
57825-80

OPEN CONTROL/BIAS, CIRCUIT A AND CIRCUIT B CIRCUIT BREAKERS

DISCONNECT THE CABLE FROM J10
LOOSEN THE FOUR CAPTIVE SCREWS SECURING XMTR X IN THE RACK

RELEASE THE TWO LATCH HANDLES BY DEPRESSING THE PUSH TABS

EXTEND THE HANDLES TO DISENGAGE THE LOCKING PINS

PULL THE UNIT OUT OF THE RACK INTO THE FULLY EXTENDED POSITION

CHECK A72F45 FOR CONTINUITY

CONNECT DUMMY LOAD SHOWN ON SHEET 50 TO J10

CLOSE CONTROL/BIAS, CIRCUIT A AND CIRCUIT B CIRCUIT BREAKERS

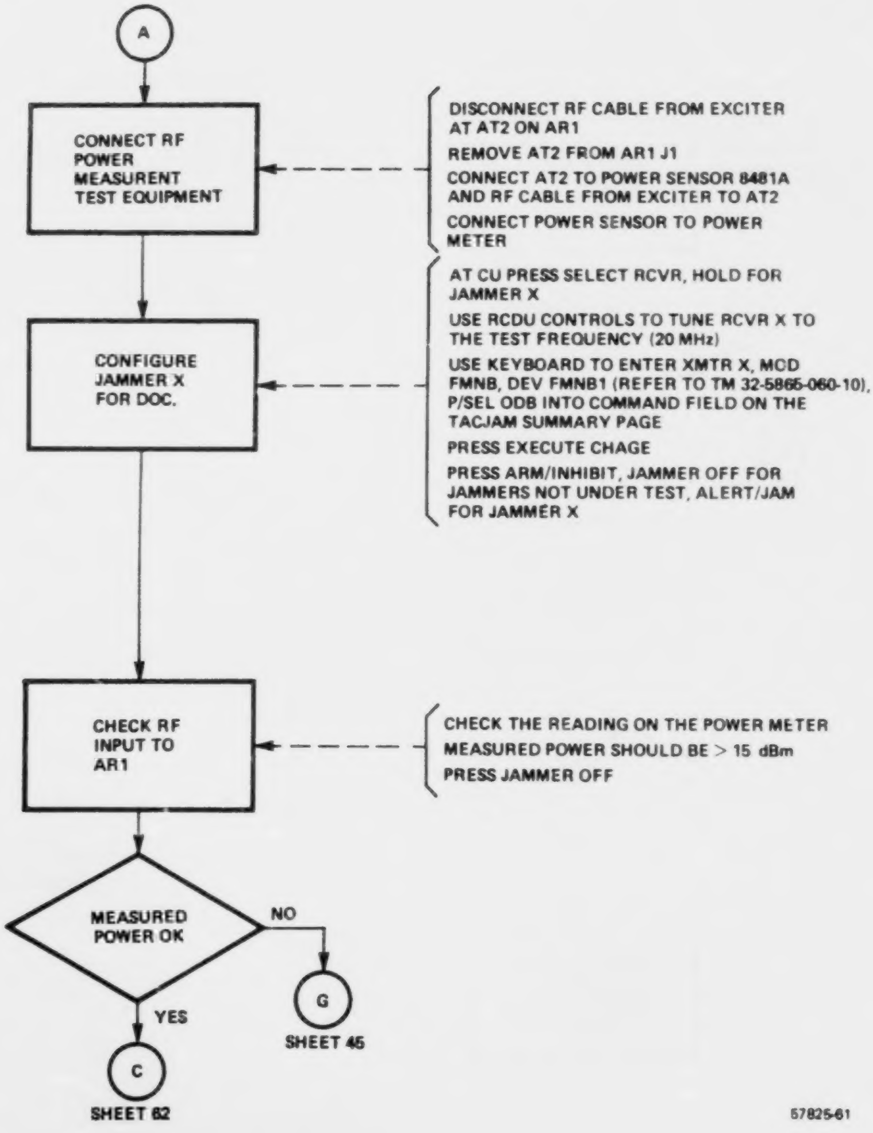
PRESS INTLK DEFEAT

ON CU PRESS ARM/INHIBIT TO LIGHT ARM SEGMENT

CHECK THAT THE LED FUSE INDICATOR A72DS23 REMAINS OFF (GOOD).

REFER TO TM 32-5865-073-24&P

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 60 of 93)

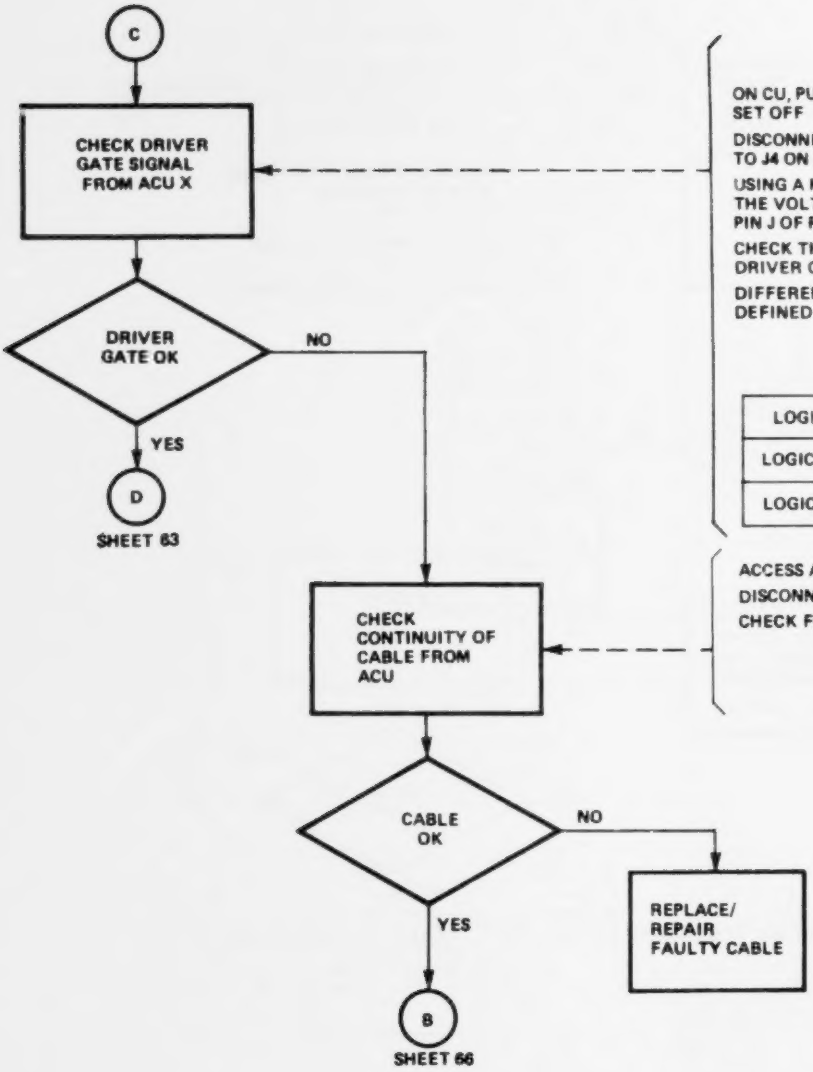


DISCONNECT RF CABLE FROM EXCITER AT AT2 ON AR1
REMOVE AT2 FROM AR1 J1
CONNECT AT2 TO POWER SENSOR 8481A AND RF CABLE FROM EXCITER TO AT2
CONNECT POWER SENSOR TO POWER METER

AT CU PRESS SELECT RCVR, HOLD FOR JAMMER X
USE RCDU CONTROLS TO TUNE RCVR X TO THE TEST FREQUENCY (20 MHz)
USE KEYBOARD TO ENTER XMTR X, MOD FMNB, DEV FMNB1 (REFER TO TM 32-5865-060-10), P/SEL ODB INTO COMMAND FIELD ON THE TACJAM SUMMARY PAGE
PRESS EXECUTE CHAGE
PRESS ARM/INHIBIT, JAMMER OFF FOR JAMMERS NOT UNDER TEST, ALERT/JAM FOR JAMMER X

CHECK THE READING ON THE POWER METER
MEASURED POWER SHOULD BE > 15 dBm
PRESS JAMMER OFF

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 61 of 93)


C
CHECK DRIVER GATE SIGNAL FROM ACU X
DRIVER GATE OK
NO
YES
D
SHEET 63
CHECK CONTINUITY OF CABLE FROM ACU
CABLE OK
NO
YES
REPLACE/ REPAIR FAULTY CABLE
B
SHEET 66

ON CU, PUSH SET SAMPLE RATE TO SET OFF

DISCONNECT THE CABLE CONNECTED TO J4 ON XMTR X

USING A MULTIMETER, MEASURE THE VOLTAGE BETWEEN PIN H AND PIN J OF P2 AND GROUND

CHECK THAT THE DIFFERENTIAL SIGNAL DRIVER GATE IS A LOGIC 'O'

DIFFERENTIAL LOGIC SIGNALS ARE DEFINED AS FOLLOWS:

LOGIC	PIN H	PIN J
LOGIC 'O'	0.0 TO 0.4	2.4 TO 5.5V
LOGIC '1'	2.4 TO 5.5V	0.0 TO 0.4

ACCESS ACU X REAR PANEL CONNECTORS

DISCONNECT THE CABLE CONNECTED TO J12

CHECK FOR CONTINUITY AS FOLLOWS:

P1-b TO P2-H
P1-c TO P2-J

57825-62

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 62 of 93)

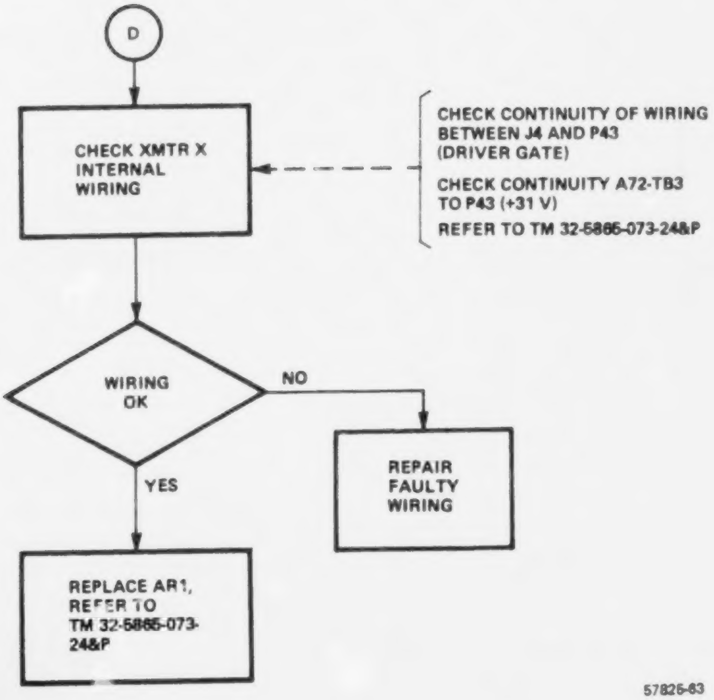
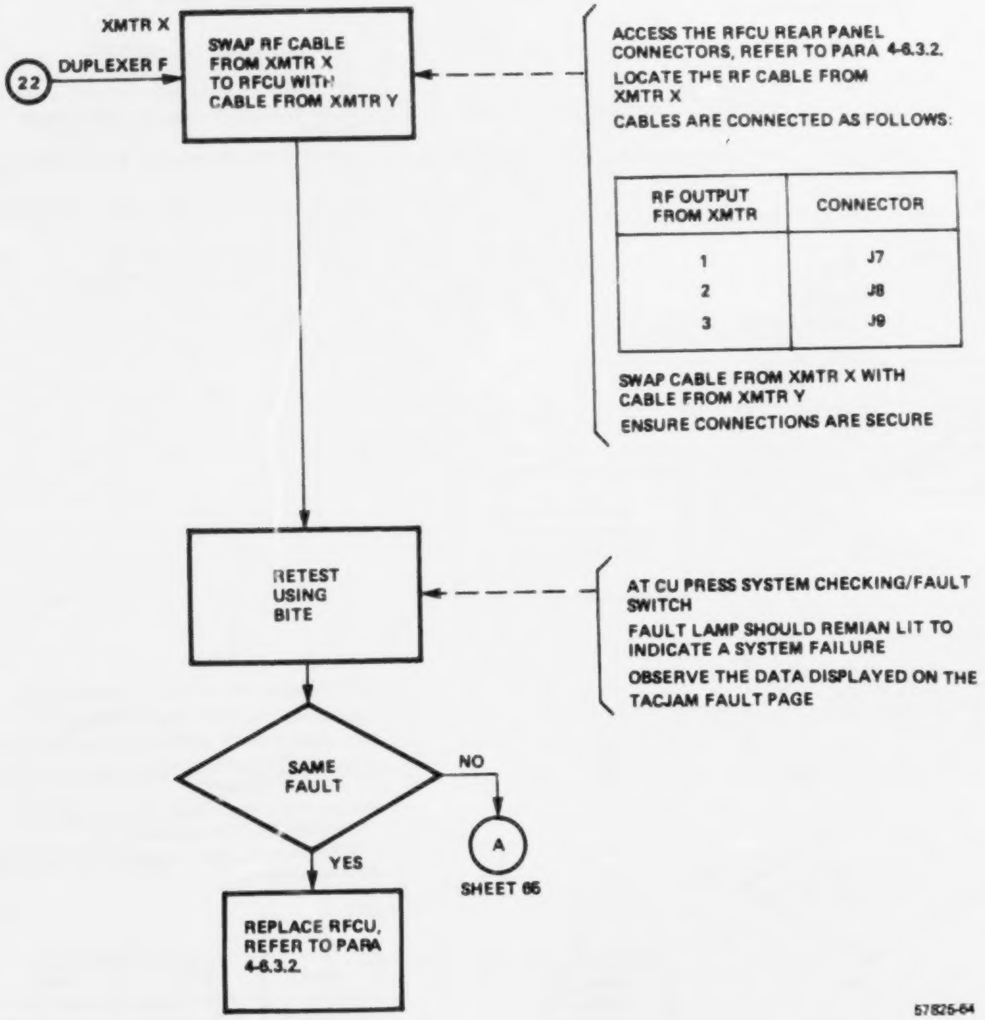

D
CHECK XMTR X INTERNAL WIRING
CHECK CONTINUITY OF WIRING BETWEEN J4 AND P43 (DRIVER GATE)
CHECK CONTINUITY A72-TB3 TO P43 (+31 V)
REFER TO TM 32-5865-073-24&P
WIRING OK
NO
YES
REPAIR FAULTY WIRING
REPLACE AR1, REFER TO TM 32-5865-073-24&P
57826-63

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 63 of 93)


XMTR X
DUPLEXER F
22
SWAP RF CABLE FROM XMTR X TO RFCU WITH CABLE FROM XMTR Y
RETEST USING BITE
SAME FAULT
NO
YES
A
SHEET 65
REPLACE RFCU, REFER TO PARA 4-6.3.2.
57826-64

ACCESS THE RFCU REAR PANEL CONNECTORS, REFER TO PARA 4-6.3.2.

LOCATE THE RF CABLE FROM XMTR X

CABLES ARE CONNECTED AS FOLLOWS:

RF OUTPUT FROM XMTR	CONNECTOR
1	J7
2	J8
3	J9

SWAP CABLE FROM XMTR X WITH CABLE FROM XMTR Y

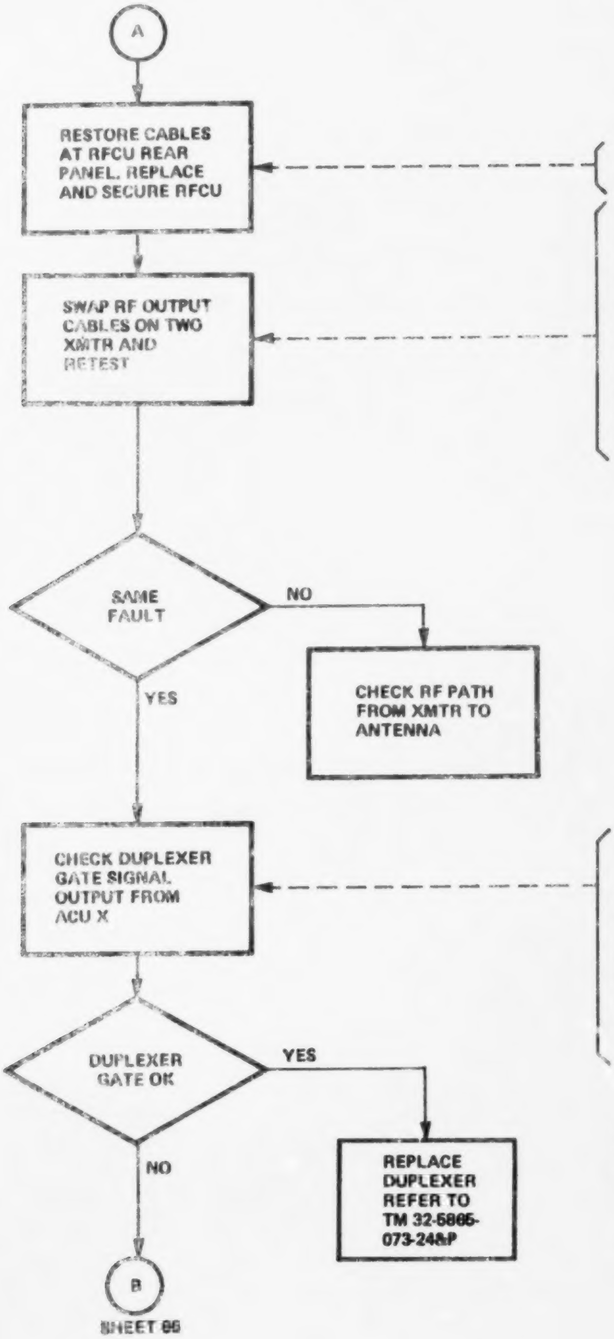
ENSURE CONNECTIONS ARE SECURE

AT CU PRESS SYSTEM CHECKING/FAULT SWITCH

FAULT LAMP SHOULD REMIAN LIT TO INDICATE A SYSTEM FAILURE

OBSERVE THE DATA DISPLAYED ON THE TACJAM FAULT PAGE

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 64 of 93)


A
RESTORE CABLES AT RFCU REAR PANEL. REPLACE AND SECURE RFCU
SWAP RF OUTPUT CABLES ON TWO XMTR AND RETEST
SAME FAULT
NO
YES
CHECK RF PATH FROM XMTR TO ANTENNA
CHECK DUPLEXER GATE SIGNAL OUTPUT FROM ACU X
DUPLEXER GATE OK
YES
NO
REPLACE DUPLEXER REFER TO TM 32-5865-073-24&P
B
SHEET 66

REFER TO PARA 4-6.3.2.

OPEN CIRCUIT A AND CIRCUIT B CIRCUIT BREAKERS ON XMTR X AND XMTR Y

SWAP RF OUTPUT CABLES, CONNECTED TO J10

ENSURE CONNECTORS PROPERLY MATED AND SECURE

CLOSE CIRCUIT A AND CIRCUIT B CIRCUIT BREAKERS

PRESS SYSTEM CHECKING/FAULT

OBSERVE TACJAM FAULT PAGE DATA

ACCESS ACU X REAR PANEL CONNECTORS

DISCONNECT CABLE CONNECTED TO J12

SET SAMPLE RATE TO CONTINUOUS RECEIVE

MEASURE THE VOLTAGE AT PINS X AND Y OF J12 AND GROUND

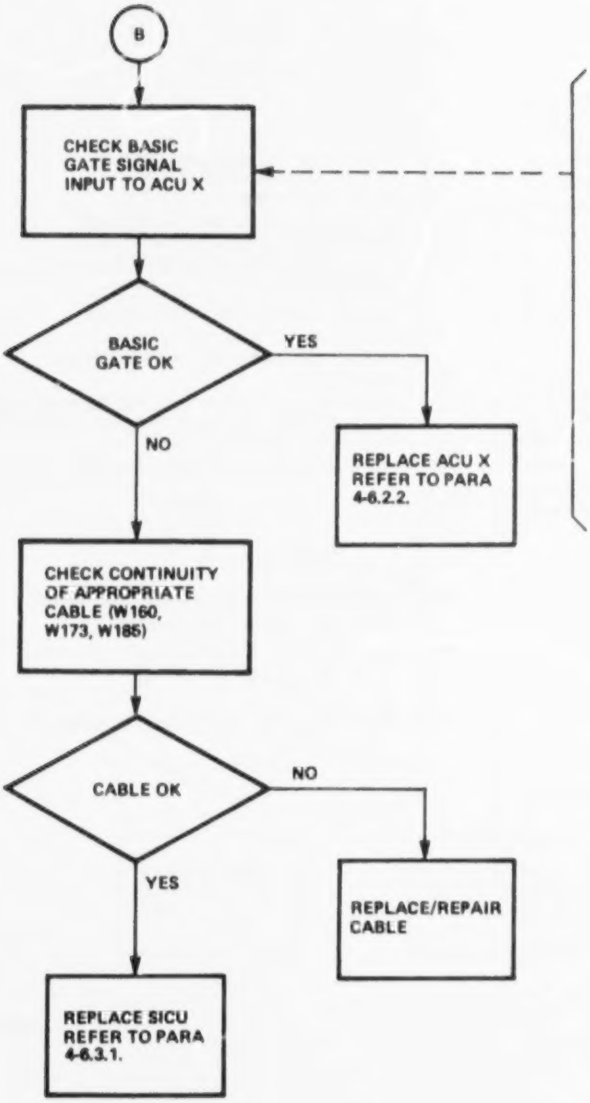
CHECK THAT THE DIFFERENTIAL SIGNAL DUPLEXER GATE IS LOGIC '0'

DIFFERENTIAL LOGIC SIGNALS ARE DEFINED AS FOLLOWS:

LOGIC	PIN X	PIN Y
LOGIC '0'	0.0 TO 0.4V	2.4 TO 5.5V
LOGIC '1'	2.4 TO 5.5V	0.0 TO 0.4V

57026-66

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 65 of 93)


B
CHECK BASIC GATE SIGNAL INPUT TO ACU X
BASIC GATE OK
YES
NO
REPLACE ACU X REFER TO PARA 4-6.2.2.
CHECK CONTINUITY OF APPROPRIATE CABLE (W160, W173, W185)
CABLE OK
NO
YES
REPLACE/REPAIR CABLE
REPLACE SICU REFER TO PARA 4-6.3.1.

ACCESS ACU X REAR PANEL CONNECTORS

DISCONNECT THE CABLE CONNECTED TO J8 (W160, W173, W185)

MEASURE THE VOLTAGE BETWEEN PINS S AND T OF THE CABLE AND GROUND

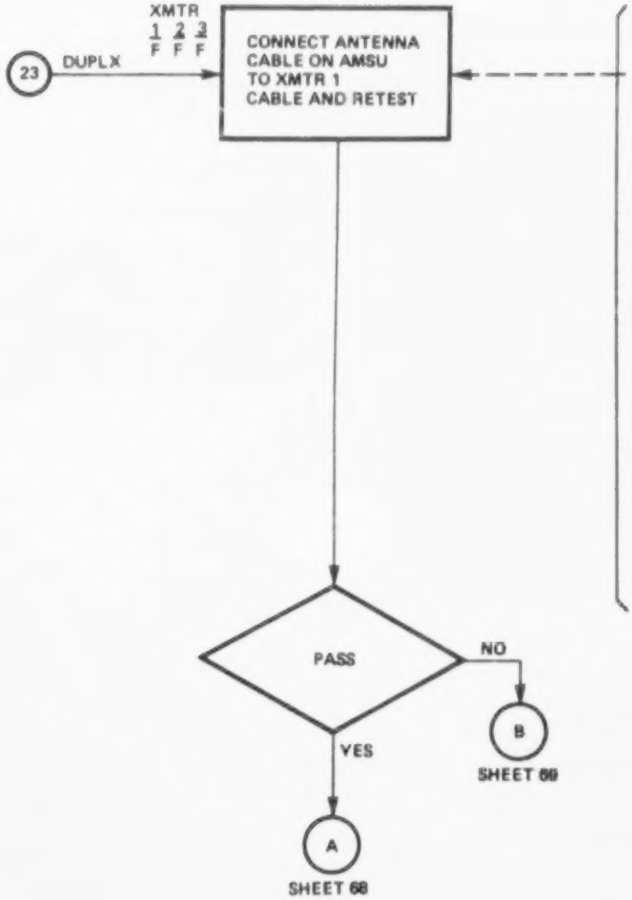
CHECK THAT THE DIFFERENTIAL SIGNAL BASIC GATE IS A LOGIC '1'

DIFFERENTIAL LOGIC SIGNALS ARE DEFINED AS FOLLOWS:

LOGIC	PIN S	PIN T
LOGIC '0'	0.0 TO 0.4V	2.4 TO 5.5V
LOGIC '1'	2.4 to 5.5V	0.0 TO 0.4V

57825-66

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 66 of 93)



OPEN CIRCUIT A AND CIRCUIT B CIRCUIT BREAKERS ON XMTR 1, XMTR 2 AND XMTR 3

AT AMSU FRONT PANEL DISCONNECT RF CABLES AT ANT AND XMTR1 JACKS

CONNECT THE TWO CABLES TOGETHER USING ADAPTOR SC/F-SC/F

ENSURE CONNECTIONS ARE SECURE

CLOSE CIRCUIT A AND CIRCUIT B CIRCUIT BREAKERS ON XMTR 1, XMTR 2 AND XMTR 3

ON CU FRONT PANEL PRESS SYSTEM CHECKING/ FAULT SWITCH. OBSERVE THE DATA DISPLAYED ON THE TACJAM FAULT PAGE

THE DUPLEXER FIELD SHOULD SHOW:

	XMTR	
	2	3
DUPLEXER	F	F

THIS INDICATES A SUCESSFUL TEST (PASS)

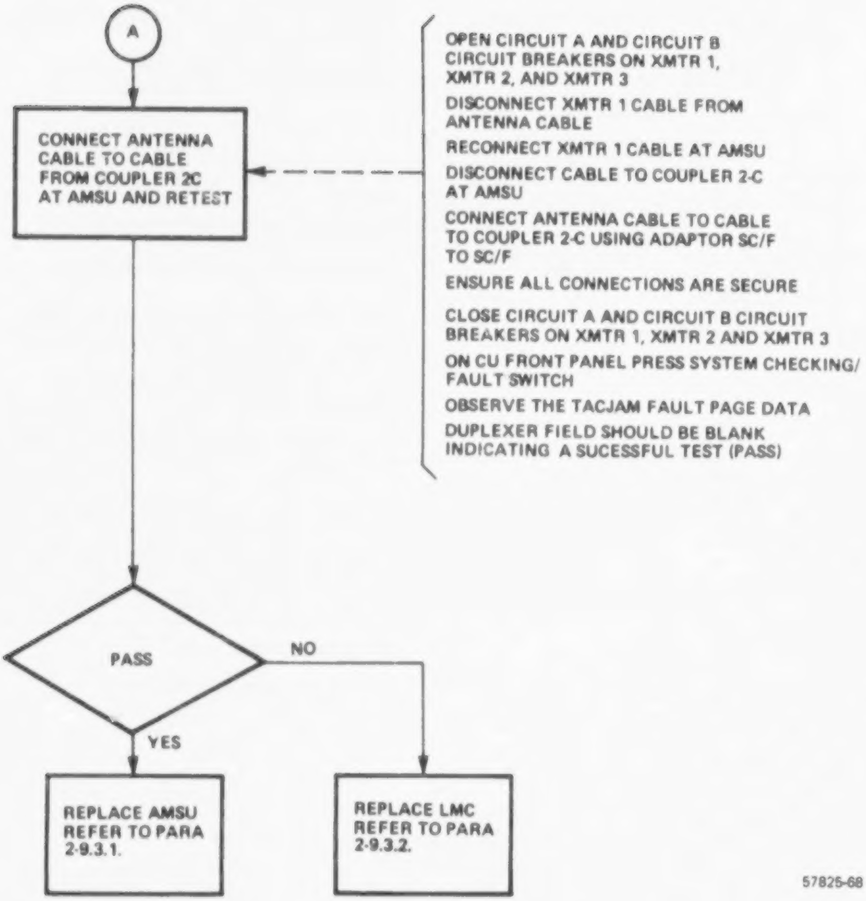
IF THE DUPLEXER FIELD SHOWS:

	1	2	3
DUPLEXER	F	F	F

AN UNSUCESSFUL TEST (FAIL) IS INDICATED

57825-67

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 67 of 93)


A
CONNECT ANTENNA CABLE TO CABLE FROM COUPLER 2C AT AMSU AND RETEST
PASS
NO
YES
REPLACE AMSU REFER TO PARA 2-9.3.1.
REPLACE LMC REFER TO PARA 2-9.3.2.
57825-68

OPEN CIRCUIT A AND CIRCUIT B CIRCUIT BREAKERS ON XMTR 1, XMTR 2, AND XMTR 3

DISCONNECT XMTR 1 CABLE FROM ANTENNA CABLE

RECONNECT XMTR 1 CABLE AT AMSU

DISCONNECT CABLE TO COUPLER 2-C AT AMSU

CONNECT ANTENNA CABLE TO CABLE TO COUPLER 2-C USING ADAPTOR SC/F TO SC/F

ENSURE ALL CONNECTIONS ARE SECURE

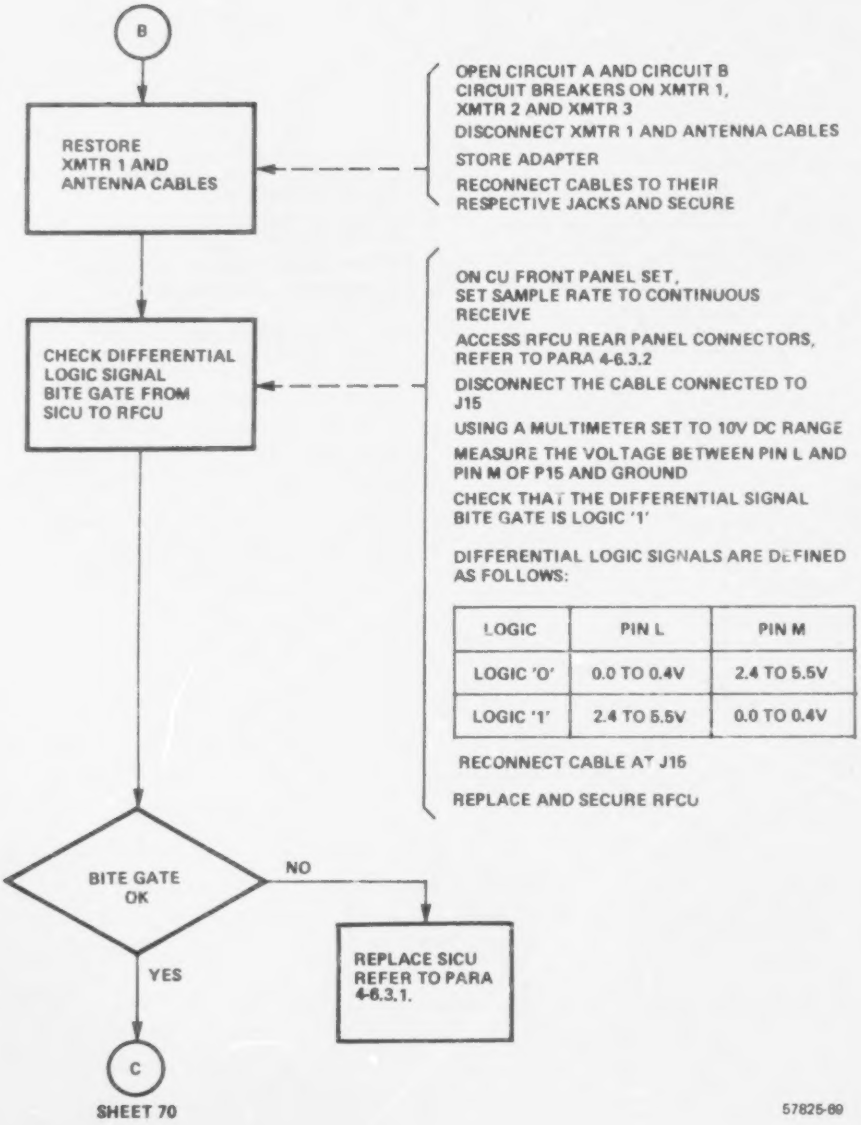
CLOSE CIRCUIT A AND CIRCUIT B CIRCUIT BREAKERS ON XMTR 1, XMTR 2 AND XMTR 3

ON CU FRONT PANEL PRESS SYSTEM CHECKING/FAULT SWITCH

OBSERVE THE TACJAM FAULT PAGE DATA

DUPLEXER FIELD SHOULD BE BLANK INDICATING A SUCESSFUL TEST (PASS)

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 68 of 93)


B
RESTORE XMTR 1 AND ANTENNA CABLES
CHECK DIFFERENTIAL LOGIC SIGNAL BITE GATE FROM SICU TO RFCU
BITE GATE OK
NO
YES
REPLACE SICU REFER TO PARA 4-6.3.1.
C
SHEET 70
57825-69

OPEN CIRCUIT A AND CIRCUIT B CIRCUIT BREAKERS ON XMTR 1, XMTR 2 AND XMTR 3

DISCONNECT XMTR 1 AND ANTENNA CABLES

STORE ADAPTER

RECONNECT CABLES TO THEIR RESPECTIVE JACKS AND SECURE

ON CU FRONT PANEL SET, SET SAMPLE RATE TO CONTINUOUS RECEIVE

ACCESS RFCU REAR PANEL CONNECTORS, REFER TO PARA 4-6.3.2

DISCONNECT THE CABLE CONNECTED TO J15

USING A MULTIMETER SET TO 10V DC RANGE

MEASURE THE VOLTAGE BETWEEN PIN L AND PIN M OF P15 AND GROUND

CHECK THAT THE DIFFERENTIAL SIGNAL BITE GATE IS LOGIC '1'

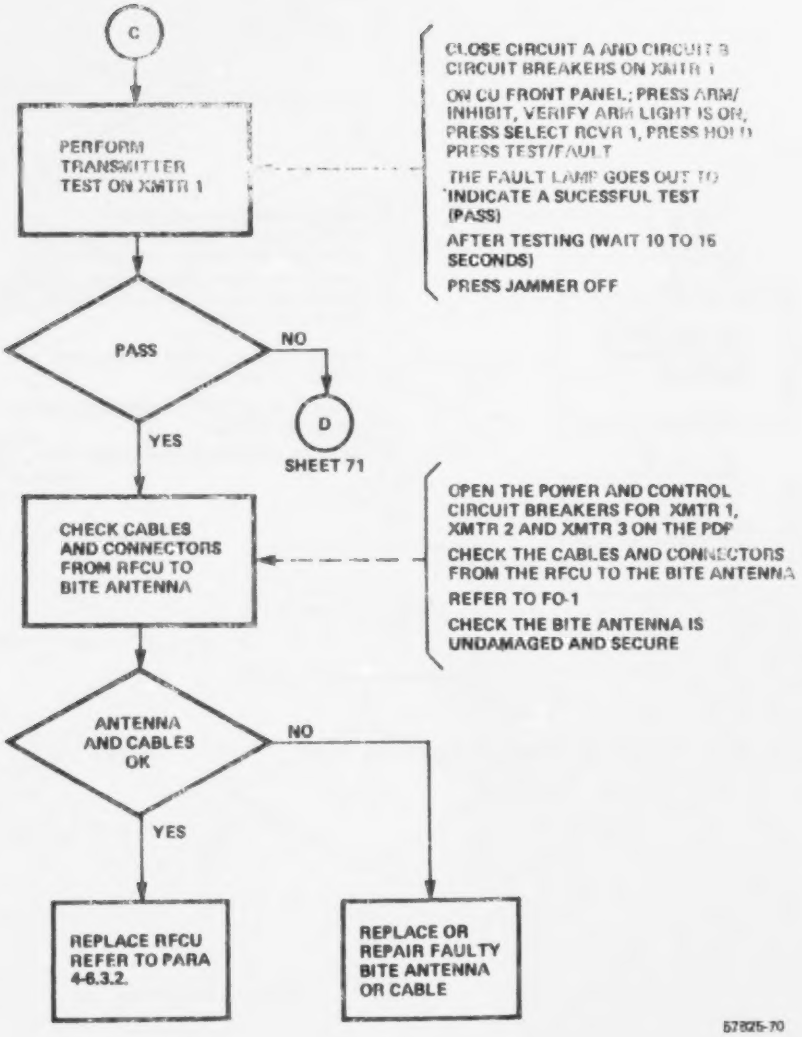
DIFFERENTIAL LOGIC SIGNALS ARE DEFINED AS FOLLOWS:

LOGIC	PIN L	PIN M
LOGIC '0'	0.0 TO 0.4V	2.4 TO 5.5V
LOGIC '1'	2.4 TO 5.5V	0.0 TO 0.4V

RECONNECT CABLE AT J15

REPLACE AND SECURE RFCU

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 69 of 93)


C
PERFORM TRANSMITTER TEST ON XMTR 1
PASS
NO
D
SHEET 71
YES
CHECK CABLES AND CONNECTORS FROM RFCU TO BITE ANTENNA
ANTENNA AND CABLES OK
NO
YES
REPLACE RFCU REFER TO PARA 4-6.3.2.
REPLACE OR REPAIR FAULTY BITE ANTENNA OR CABLE
57825-70

CLOSE CIRCUIT A AND CIRCUIT B CIRCUIT BREAKERS ON XMTR 1

ON CU FRONT PANEL; PRESS ARM/INHIBIT, VERIFY ARM LIGHT IS ON, PRESS SELECT RCVR 1, PRESS HOLD PRESS TEST/FAULT

THE FAULT LAMP GOES OUT TO INDICATE A SUCESSFUL TEST (PASS)

AFTER TESTING (WAIT 10 TO 15 SECONDS)

PRESS JAMMER OFF

OPEN THE POWER AND CONTROL CIRCUIT BREAKERS FOR XMTR 1, XMTR 2 AND XMTR 3 ON THE PDP

CHECK THE CABLES AND CONNECTORS FROM THE RFCU TO THE BITE ANTENNA

REFER TO FO-1

CHECK THE BITE ANTENNA IS UNDAMAGED AND SECURE

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 70 of 93)

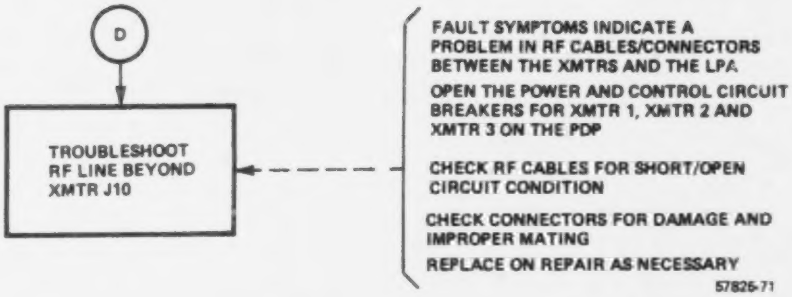

D
TROUBLESHOOT RF LINE BEYOND XMTR J10
FAULT SYMPTOMS INDICATE A PROBLEM IN RF CABLES/CONNECTORS BETWEEN THE XMTRS AND THE LPA
OPEN THE POWER AND CONTROL CIRCUIT BREAKERS FOR XMTR 1, XMTR 2 AND XMTR 3 ON THE PDP
CHECK RF CABLES FOR SHORT/OPEN CIRCUIT CONDITION
CHECK CONNECTORS FOR DAMAGE AND IMPROPER MATING
REPLACE ON REPAIR AS NECESSARY
57826-71

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 71 of 93)

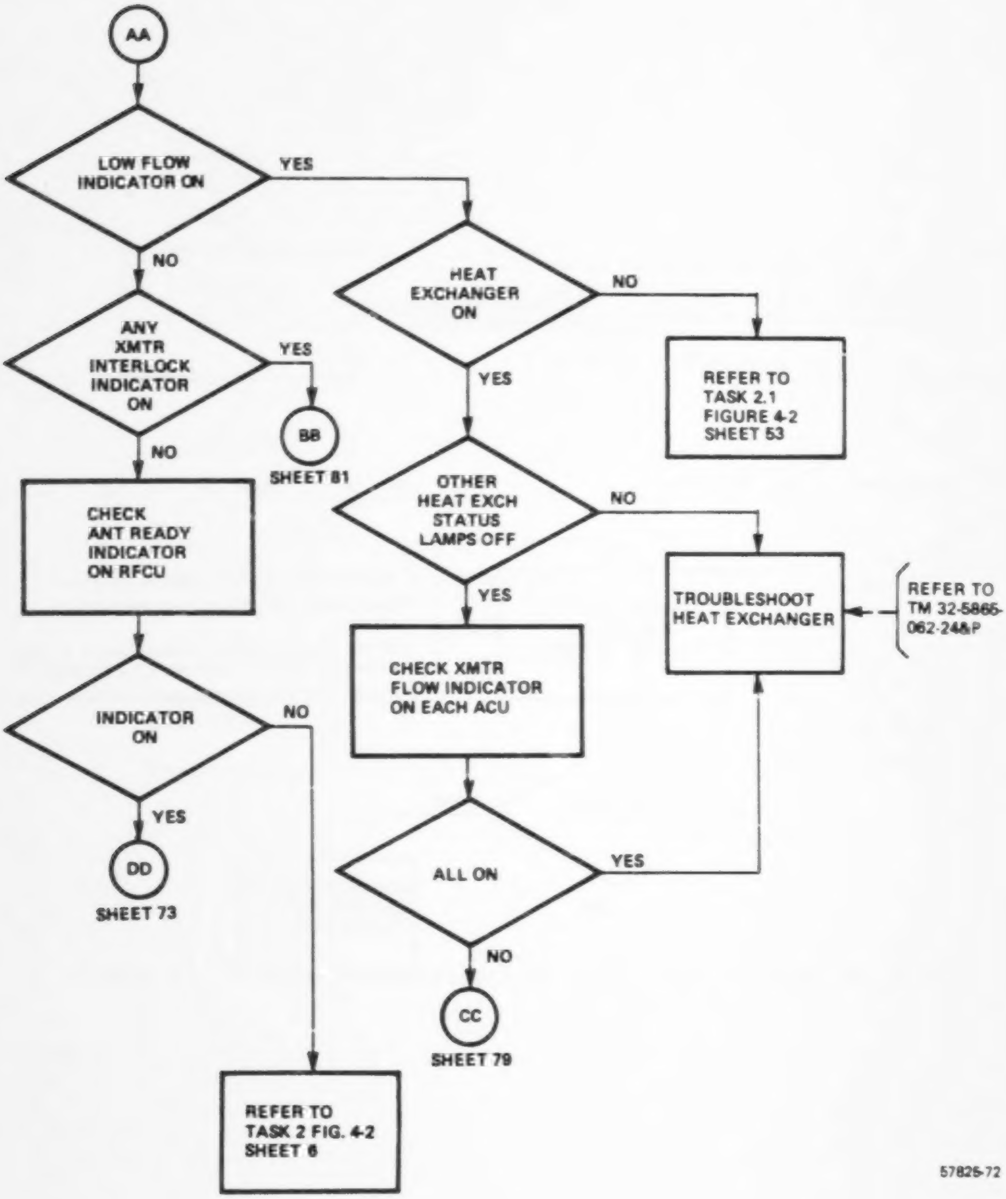

AA
LOW FLOW INDICATOR ON
YES
NO
HEAT EXCHANGER ON
NO
ANY XMTR INTERLOCK INDICATOR ON
YES
REFER TO TASK 2.1 FIGURE 4-2 SHEET 53
YES
NO
BB
SHEET 81
OTHER HEAT EXCH STATUS LAMPS OFF
NO
CHECK ANT READY INDICATOR ON RFCU
YES
TROUBLESHOOT HEAT EXCHANGER
REFER TO TM 32-5865-062-24&P
CHECK XMTR FLOW INDICATOR ON EACH ACU
INDICATOR ON
NO
YES
DD
SHEET 73
ALL ON
YES
NO
CC
SHEET 79
REFER TO TASK 2 FIG. 4-2 SHEET 6
57826-72

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 72 of 93)

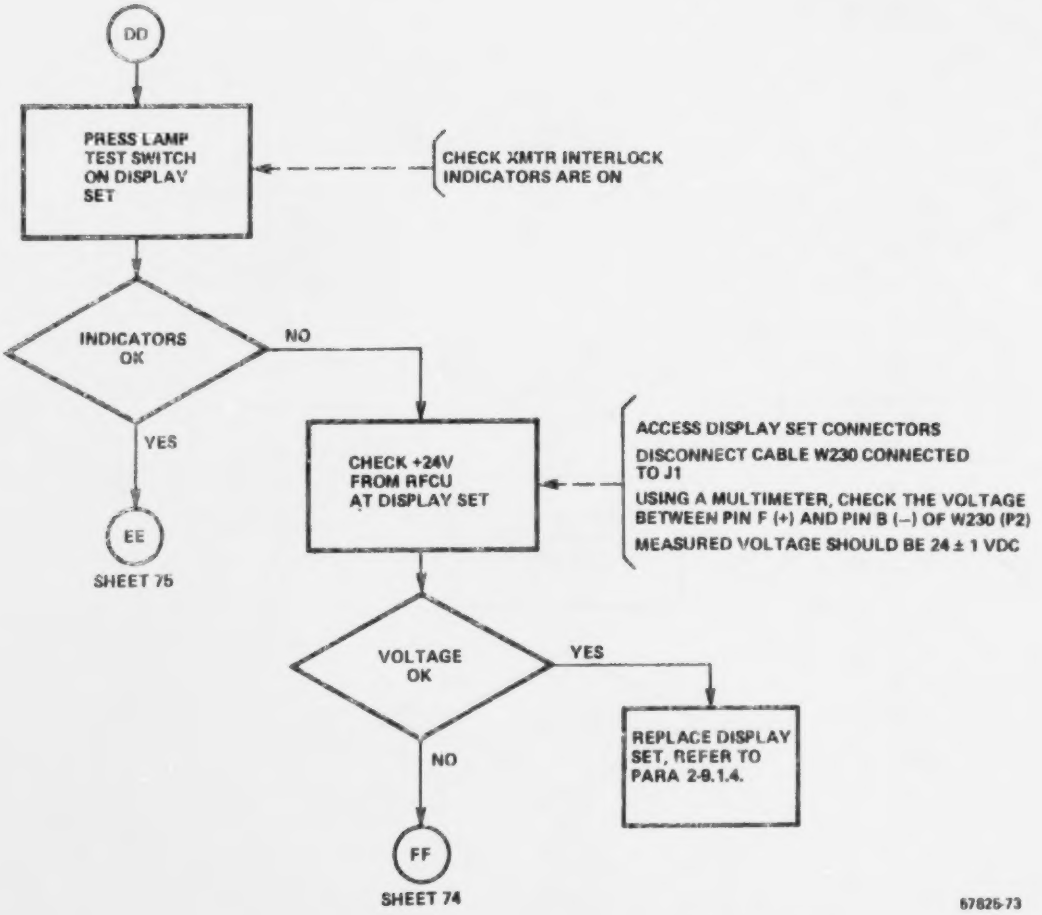

DD
PRESS LAMP TEST SWITCH ON DISPLAY SET
CHECK XMTR INTERLOCK INDICATORS ARE ON
INDICATORS OK
NO
YES
EE
SHEET 75
CHECK +24V FROM RFCU AT DISPLAY SET
ACCESS DISPLAY SET CONNECTORS
DISCONNECT CABLE W230 CONNECTED TO J1
USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN F (+) AND PIN B (–) OF W230 (P2)
MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC
VOLTAGE OK
YES
REPLACE DISPLAY SET, REFER TO PARA 2-9.1.4.
NO
FF
SHEET 74
67825-73

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 73 of 93)

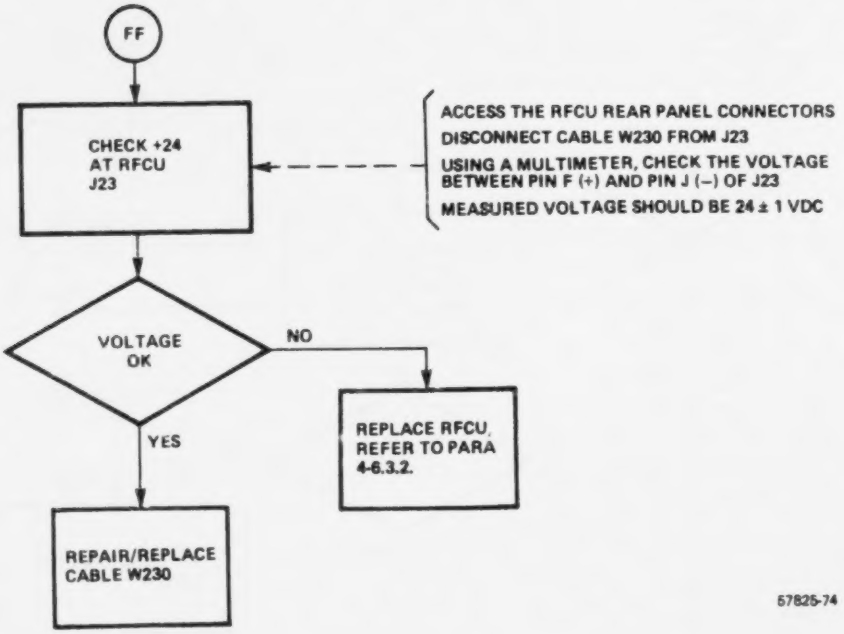
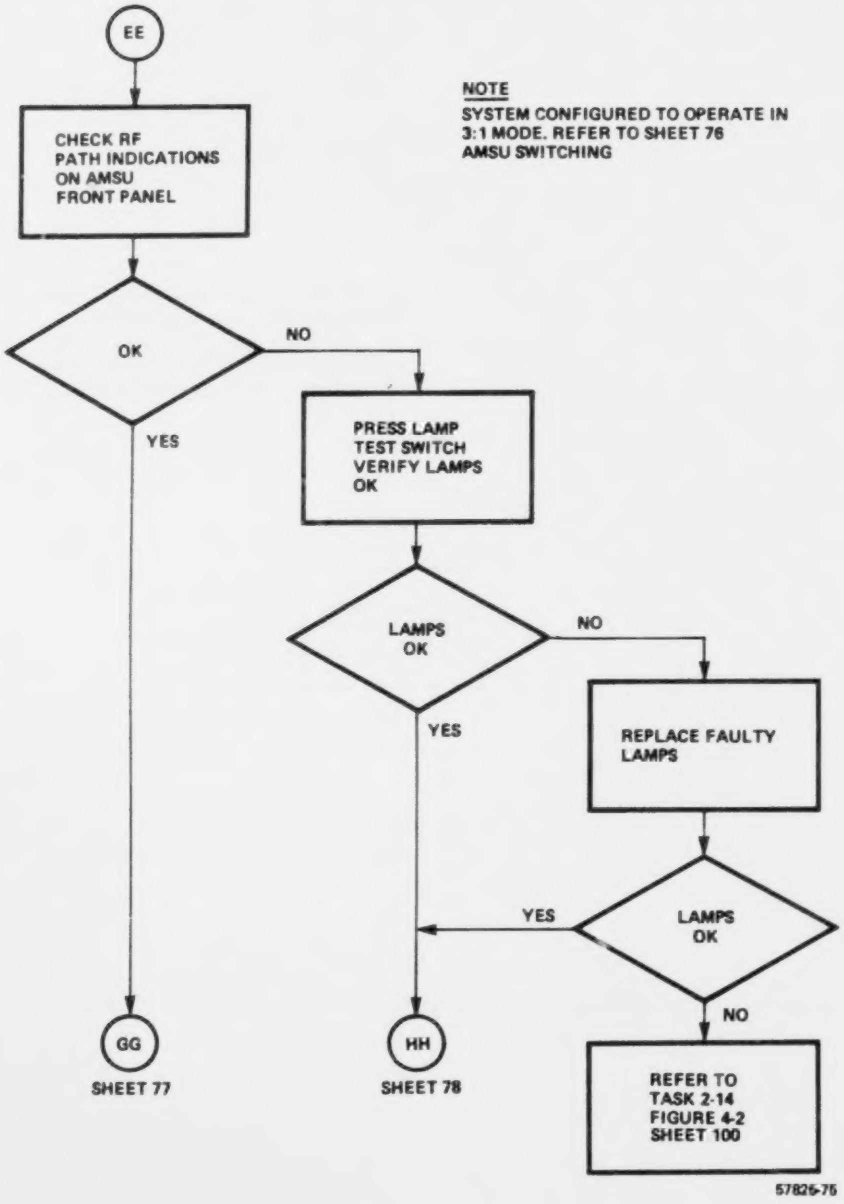
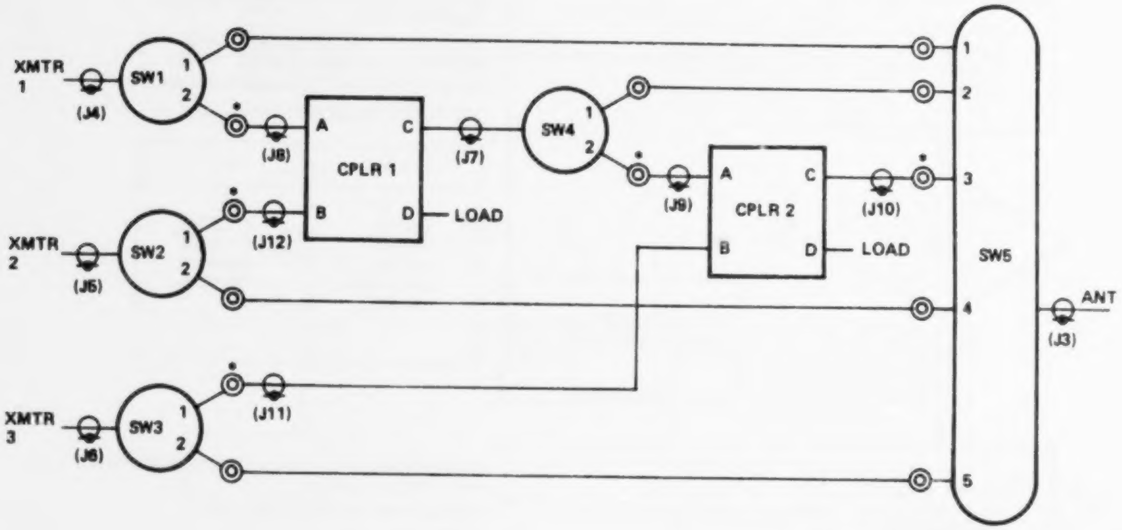

FF
CHECK +24 AT RFCU J23
ACCESS THE RFCU REAR PANEL CONNECTORS
DISCONNECT CABLE W230 FROM J23
USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN F (+) AND PIN J (–) OF J23
MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC
VOLTAGE OK
NO
YES
REPLACE RFCU, REFER TO PARA 4-6.3.2.
REPAIR/REPLACE CABLE W230
57825-74

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 74 of 93)


EE
CHECK RF PATH INDICATIONS ON AMSU FRONT PANEL
OK
NO
YES
PRESS LAMP TEST SWITCH VERIFY LAMPS OK
LAMPS OK
NO
YES
REPLACE FAULTY LAMPS
LAMPS OK
YES
NO
GG
SHEET 77
HH
SHEET 78
REFER TO TASK 2-14 FIGURE 4-2 SHEET 100
57826-75

NOTE
SYSTEM CONFIGURED TO OPERATE IN 3:1 MODE. REFER TO SHEET 76 AMSU SWITCHING

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 75 of 93)

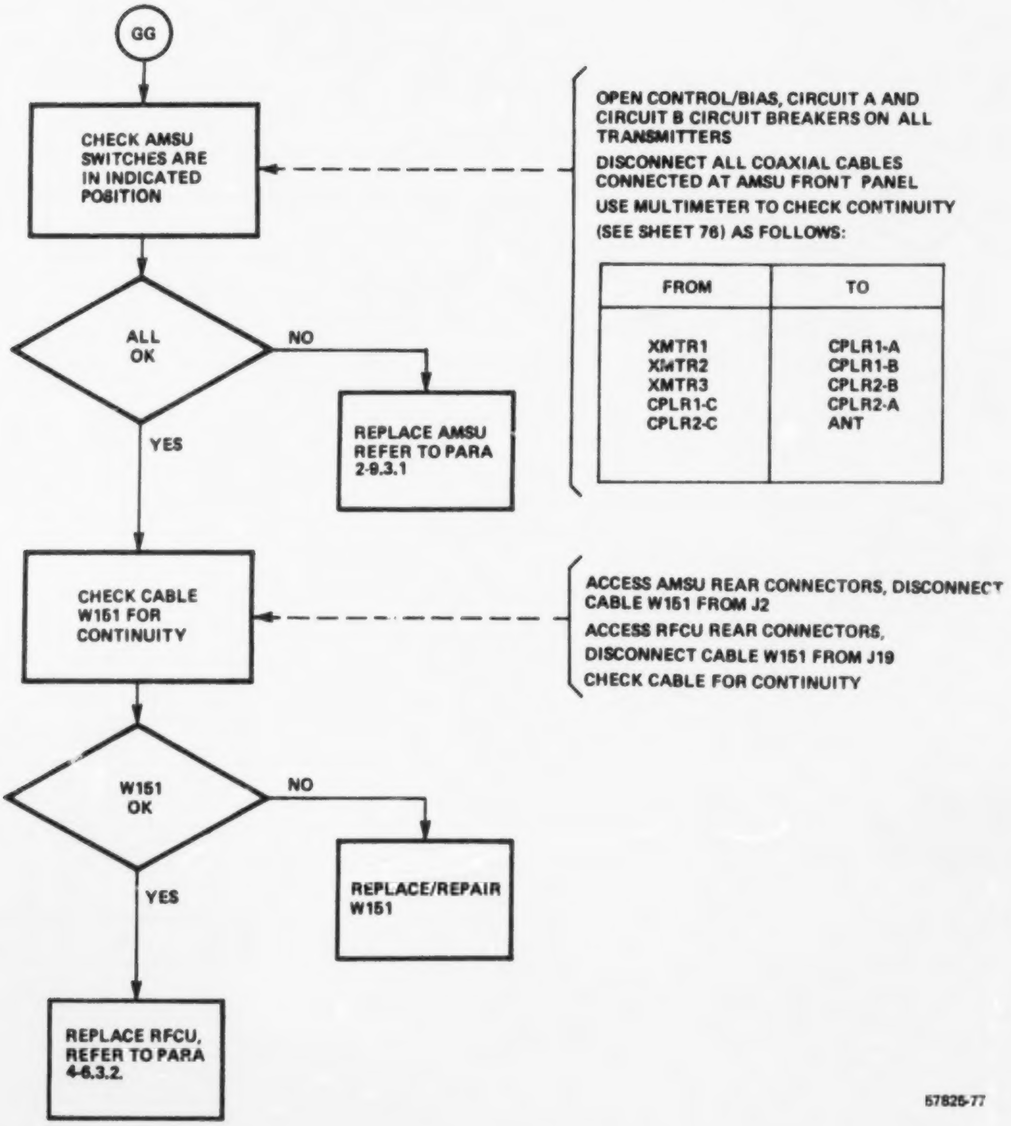


NOTE
SWITCHES SHOWN
IN 3:1 MODE POSITIONS
INDICATORS MARKED *
SHOULD BE LIT

SW NO.	RF PATH				
	1	2	3	1,2	1,2,3
	SWITCH POSITION				
1	1	2	2	2	2
2	1	2	1	1	1
3	1	1	2	1	1
4	2	2	2	1	2
5	1	4	5	2	3
SYST MODE	1:1			2:1	3:1

57825-76

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 76 of 93)


GG
CHECK AMSU SWITCHES ARE IN INDICATED POSITION
ALL OK
NO
REPLACE AMSU REFER TO PARA 2-9.3.1
YES
CHECK CABLE W151 FOR CONTINUITY
W151 OK
NO
REPLACE/REPAIR W151
YES
REPLACE RFCU, REFER TO PARA 4-6.3.2.
57826-77

OPEN CONTROL/BIAS, CIRCUIT A AND CIRCUIT B CIRCUIT BREAKERS ON ALL TRANSMITTERS

DISCONNECT ALL COAXIAL CABLES CONNECTED AT AMSU FRONT PANEL

USE MULTIMETER TO CHECK CONTINUITY (SEE SHEET 76) AS FOLLOWS:

FROM	TO
XMTR1	CPLR1-A
XMTR2	CPLR1-B
XMTR3	CPLR2-B
CPLR1-C	CPLR2-A
CPLR2-C	ANT

ACCESS AMSU REAR CONNECTORS, DISCONNECT CABLE W151 FROM J2

ACCESS RFCU REAR CONNECTORS, DISCONNECT CABLE W151 FROM J19

CHECK CABLE FOR CONTINUITY

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 77 of 93)

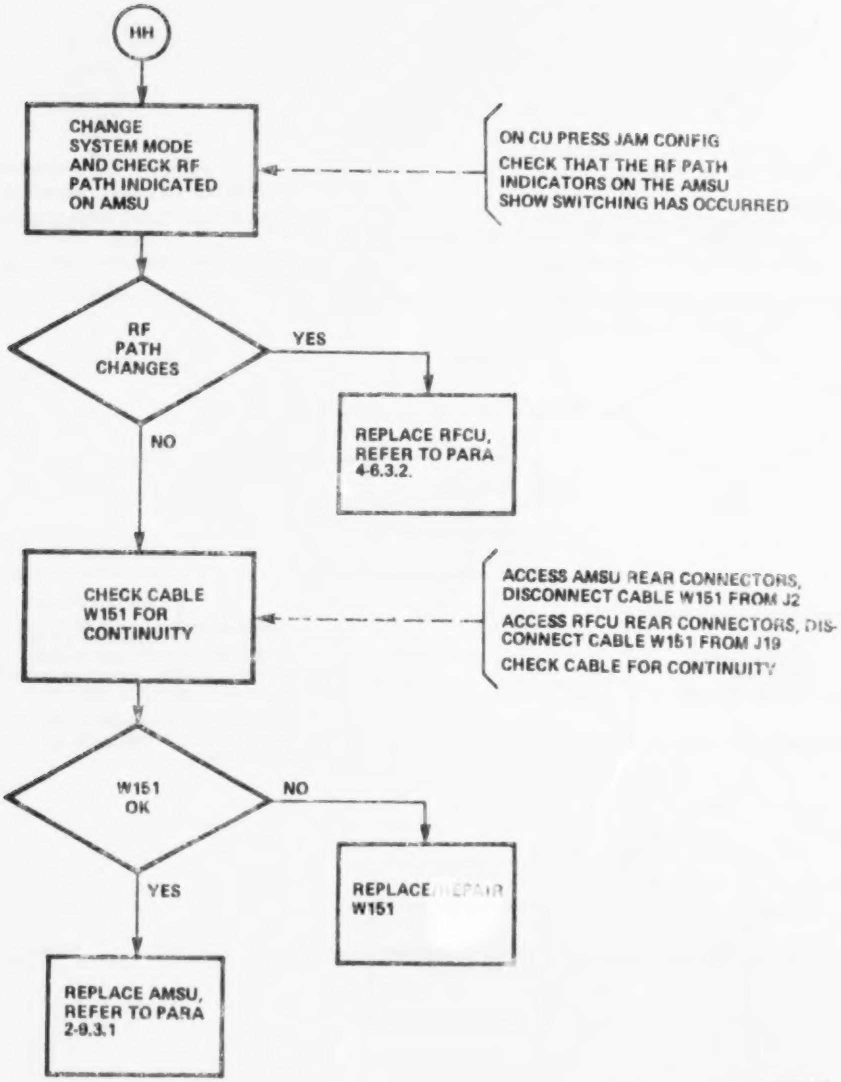

HH
CHANGE SYSTEM MODE AND CHECK RF PATH INDICATED ON AMSU
ON CU PRESS JAM CONFIG
CHECK THAT THE RF PATH INDICATORS ON THE AMSU SHOW SWITCHING HAS OCCURRED
RF PATH CHANGES
YES
NO
REPLACE RFCU, REFER TO PARA 4-6.3.2.
CHECK CABLE W151 FOR CONTINUITY
ACCESS AMSU REAR CONNECTORS, DISCONNECT CABLE W151 FROM J2
ACCESS RFCU REAR CONNECTORS, DISCONNECT CABLE W151 FROM J19
CHECK CABLE FOR CONTINUITY
W151 OK
NO
YES
REPLACE/REPAIR W151
REPLACE AMSU, REFER TO PARA 2-9.3.1
57825-78

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 78 of 93)

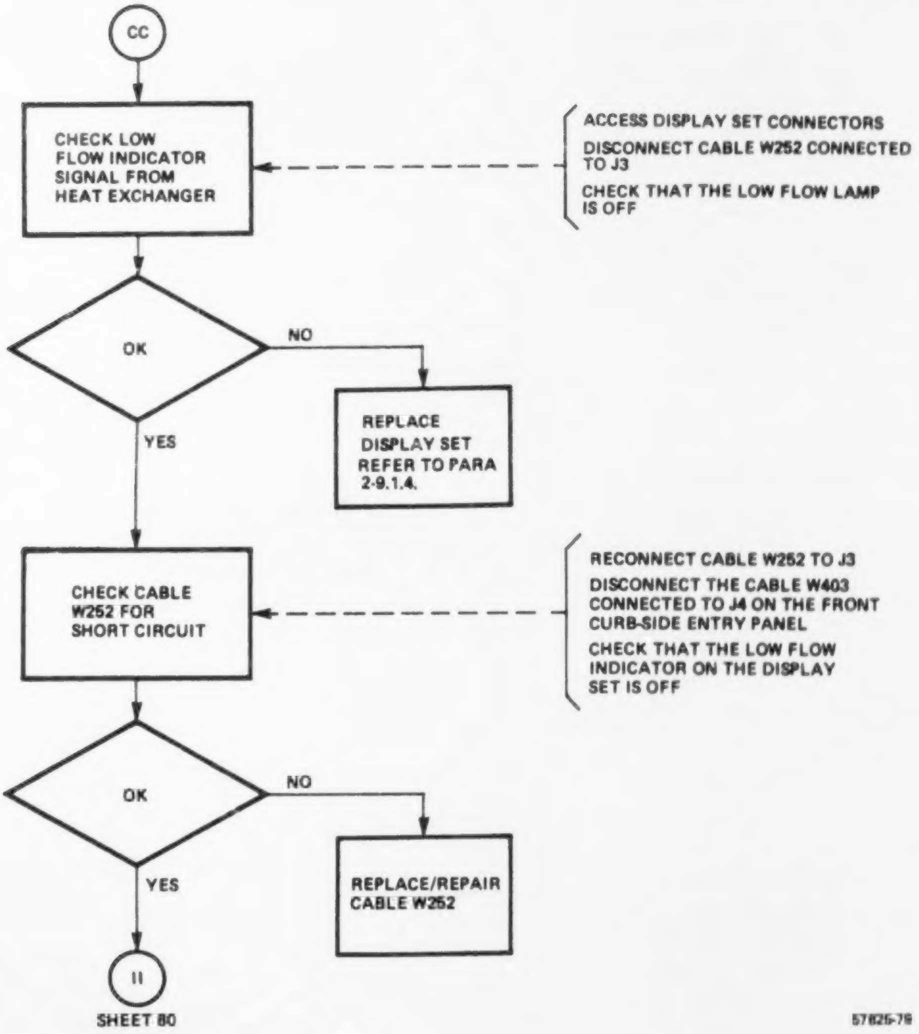
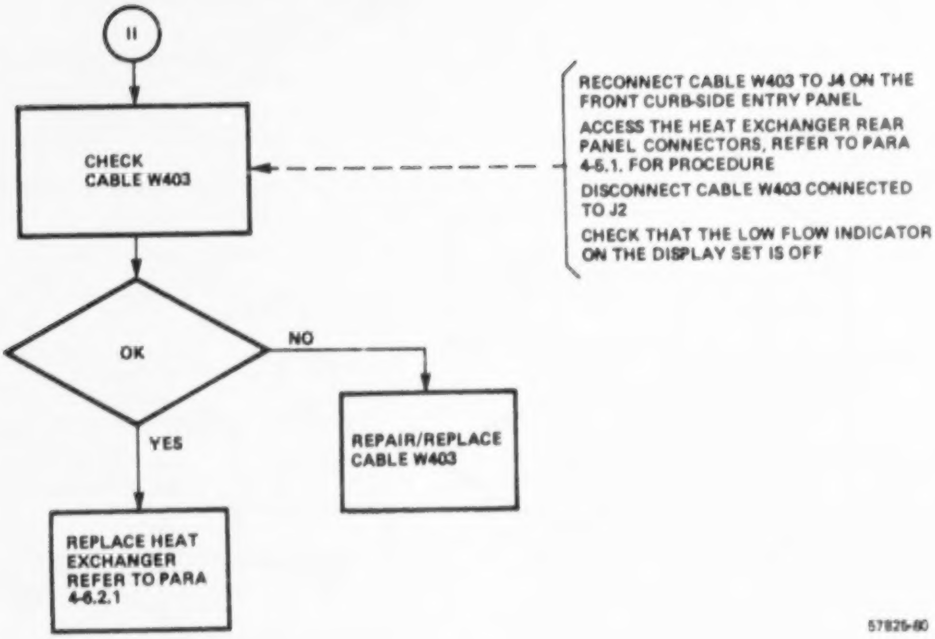

CC
CHECK LOW FLOW INDICATOR SIGNAL FROM HEAT EXCHANGER
ACCESS DISPLAY SET CONNECTORS
DISCONNECT CABLE W252 CONNECTED TO J3
CHECK THAT THE LOW FLOW LAMP IS OFF
OK
NO
REPLACE DISPLAY SET REFER TO PARA 2-9.1.4.
YES
CHECK CABLE W252 FOR SHORT CIRCUIT
RECONNECT CABLE W252 TO J3
DISCONNECT THE CABLE W403 CONNECTED TO J4 ON THE FRONT CURB-SIDE ENTRY PANEL
CHECK THAT THE LOW FLOW INDICATOR ON THE DISPLAY SET IS OFF
OK
NO
REPLACE/REPAIR CABLE W252
YES
II
SHEET 80
57825-79

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 79 of 93)


11
CHECK CABLE W403
OK
NO
YES
REPAIR/REPLACE CABLE W403
REPLACE HEAT EXCHANGER REFER TO PARA 4-6.2.1

RECONNECT CABLE W403 TO J4 ON THE FRONT CURB-SIDE ENTRY PANEL

ACCESS THE HEAT EXCHANGER REAR PANEL CONNECTORS, REFER TO PARA 4-5.1. FOR PROCEDURE

DISCONNECT CABLE W403 CONNECTED TO J2

CHECK THAT THE LOW FLOW INDICATOR ON THE DISPLAY SET IS OFF

57825-80

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 80 of 93)

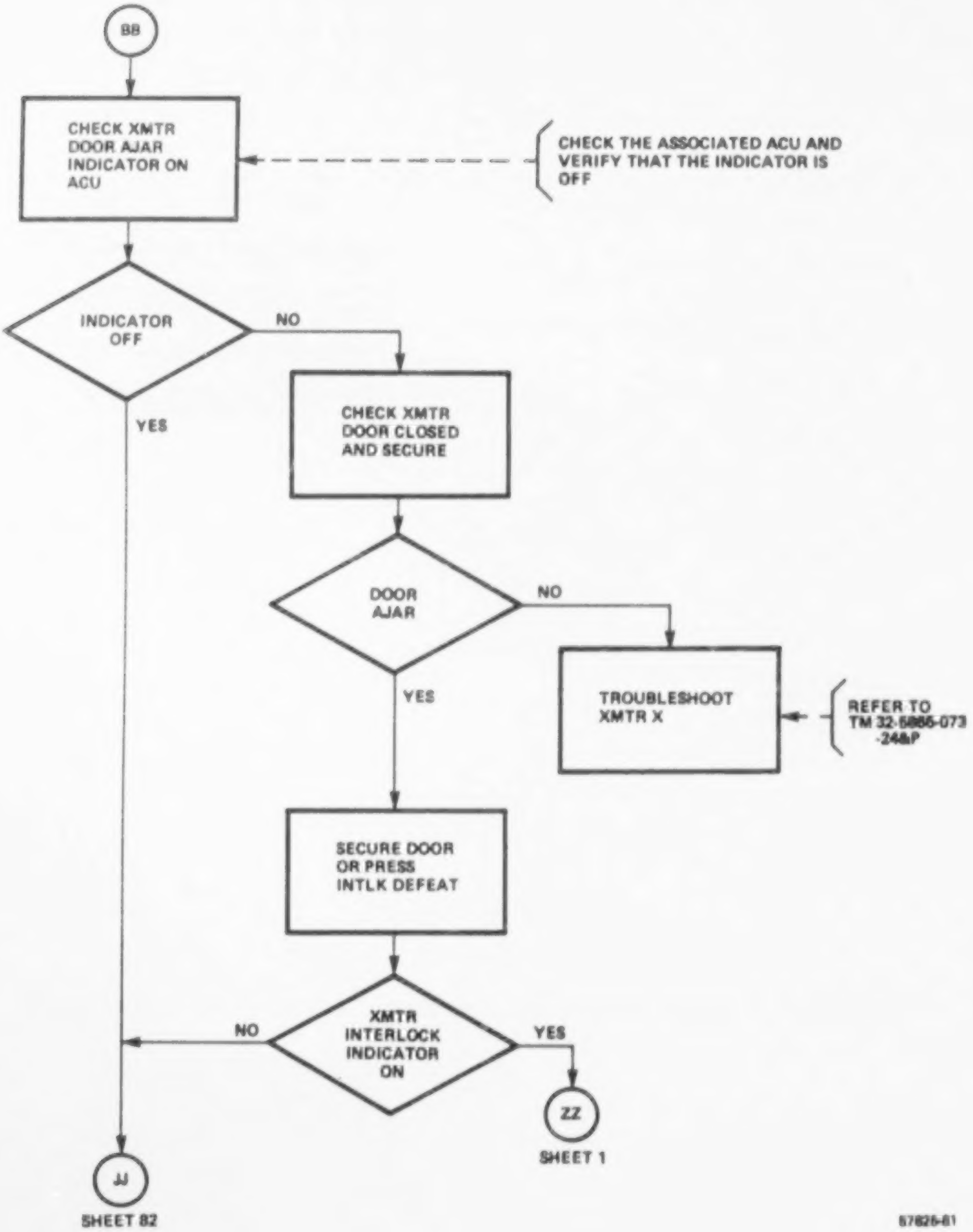
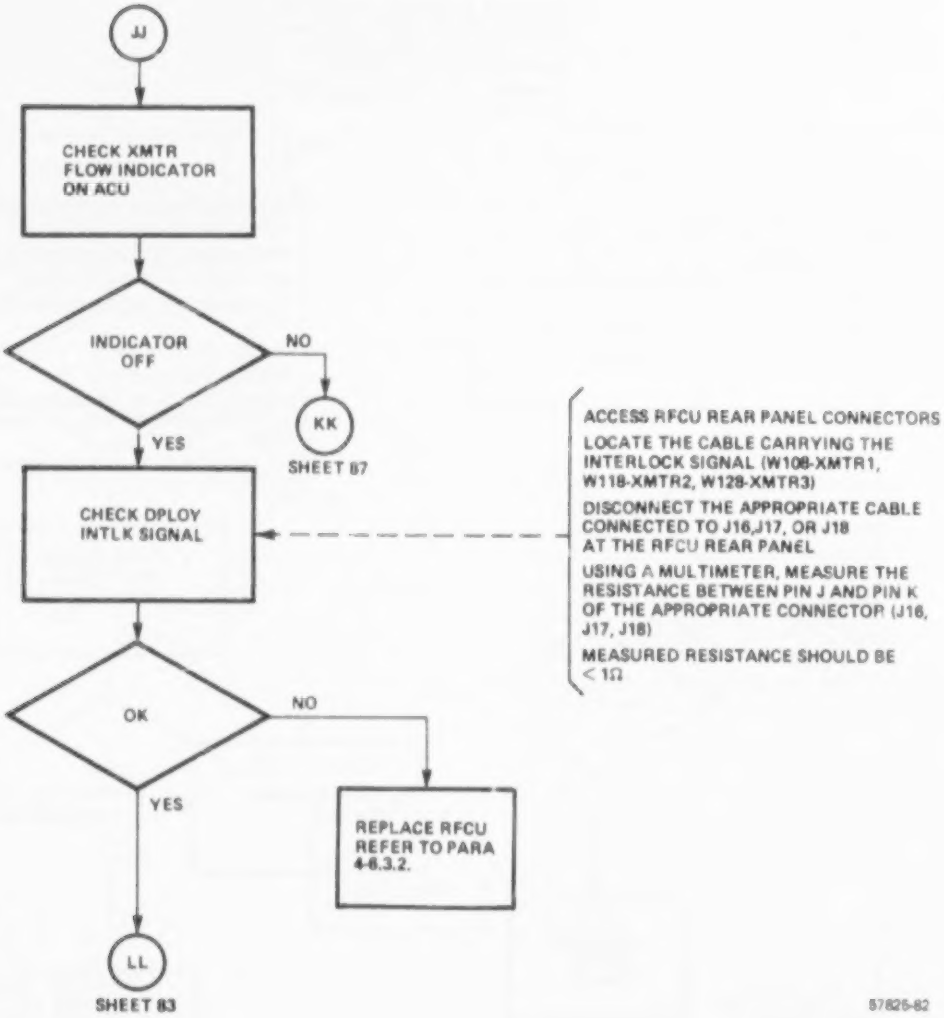

BB
CHECK XMTR DOOR AJAR INDICATOR ON ACU
CHECK THE ASSOCIATED ACU AND VERIFY THAT THE INDICATOR IS OFF
INDICATOR OFF
NO
YES
CHECK XMTR DOOR CLOSED AND SECURE
DOOR AJAR
NO
YES
TROUBLESHOOT XMTR X
REFER TO TM 32-5865-073 -24&P
SECURE DOOR OR PRESS INTLK DEFEAT
XMTR INTERLOCK INDICATOR ON
NO
YES
ZZ
SHEET 1
JJ
SHEET 82
67826-81

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 81 of 93)



ACCESS RFCU REAR PANEL CONNECTORS

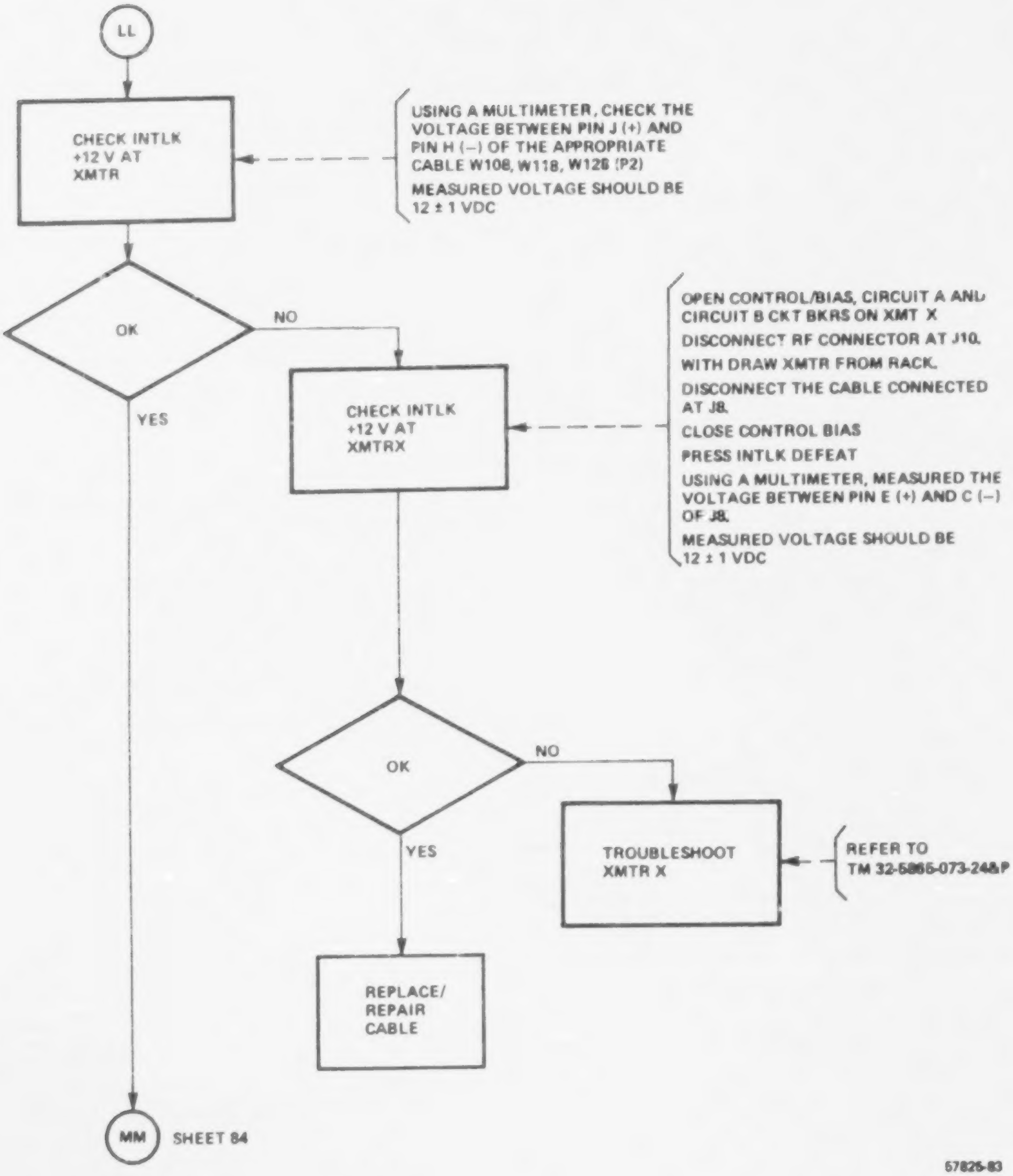
LOCATE THE CABLE CARRYING THE INTERLOCK SIGNAL (W108-XMTR1, W118-XMTR2, W128-XMTR3)

DISCONNECT THE APPROPRIATE CABLE CONNECTED TO J16,J17, OR J18 AT THE RFCU REAR PANEL

USING A MULTIMETER, MEASURE THE RESISTANCE BETWEEN PIN J AND PIN K OF THE APPROPRIATE CONNECTOR (J16, J17, J18)

MEASURED RESISTANCE SHOULD BE $< 1\Omega$

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 82 of 93)



USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN J (+) AND PIN H (–) OF THE APPROPRIATE CABLE W108, W118, W128 (P2)

MEASURED VOLTAGE SHOULD BE 12 ± 1 VDC

OPEN CONTROL/BIAS, CIRCUIT A AND CIRCUIT B CKT BKRS ON XMT X

DISCONNECT RF CONNECTOR AT J10.

WITH DRAW XMTR FROM RACK.

DISCONNECT THE CABLE CONNECTED AT J8.

CLOSE CONTROL BIAS

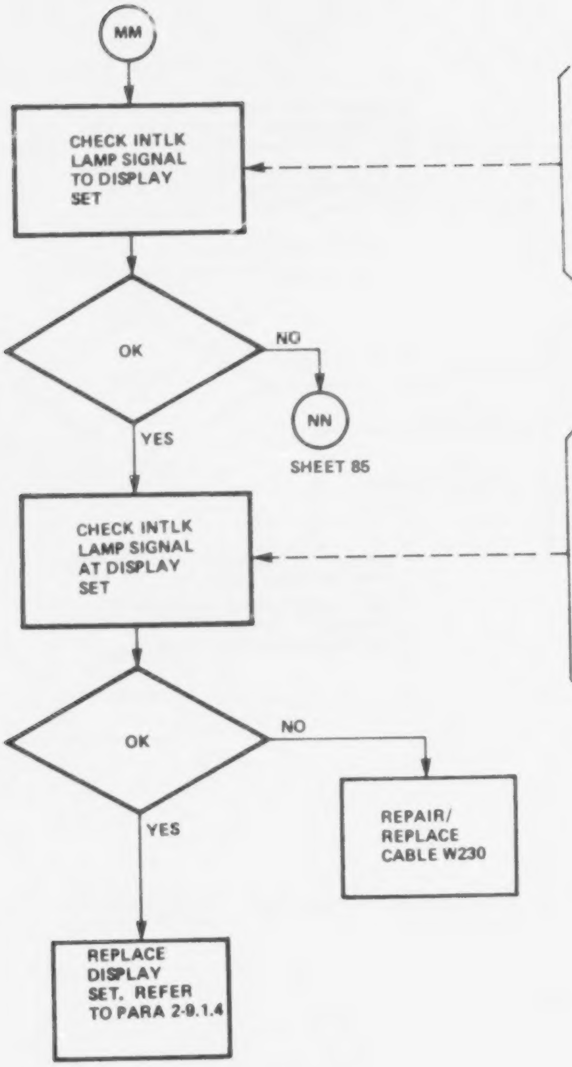
PRESS INTLK DEFEAT

USING A MULTIMETER, MEASURED THE VOLTAGE BETWEEN PIN E (+) AND C (–) OF J8.

MEASURED VOLTAGE SHOULD BE 12 ± 1 VDC

REFER TO TM 32-5865-073-24&P

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 83 of 93)


MM
CHECK INTLK LAMP SIGNAL TO DISPLAY SET
OK
NO
NN
SHEET 85
YES
CHECK INTLK LAMP SIGNAL AT DISPLAY SET
OK
NO
REPAIR/ REPLACE CABLE W230
YES
REPLACE DISPLAY SET. REFER TO PARA 2-9.1.4

RECONNECT INTERLOCK CABLE AT XMTR X (J8)

RECONNECT INTERLOCK CABLE AT RFCU REAR PANEL (J16, 17 OR 18)

DISCONNECT CABLE W230 CONNECTED TO J23.

USING A MULTIMETER, MEASURED THE VOLTAGE BETWEEN PIN F (+) AND PIN K, L, OR M FOR XMTR 1, XMTR 2, OR XMTR 3 RESPECTIVELY OF J23.

MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC.

RECONNECT CABLE W230 TO J23 AT THE RFCU REAR PANEL.

ACCESS THE DISPLAY SET CONNECTORS.

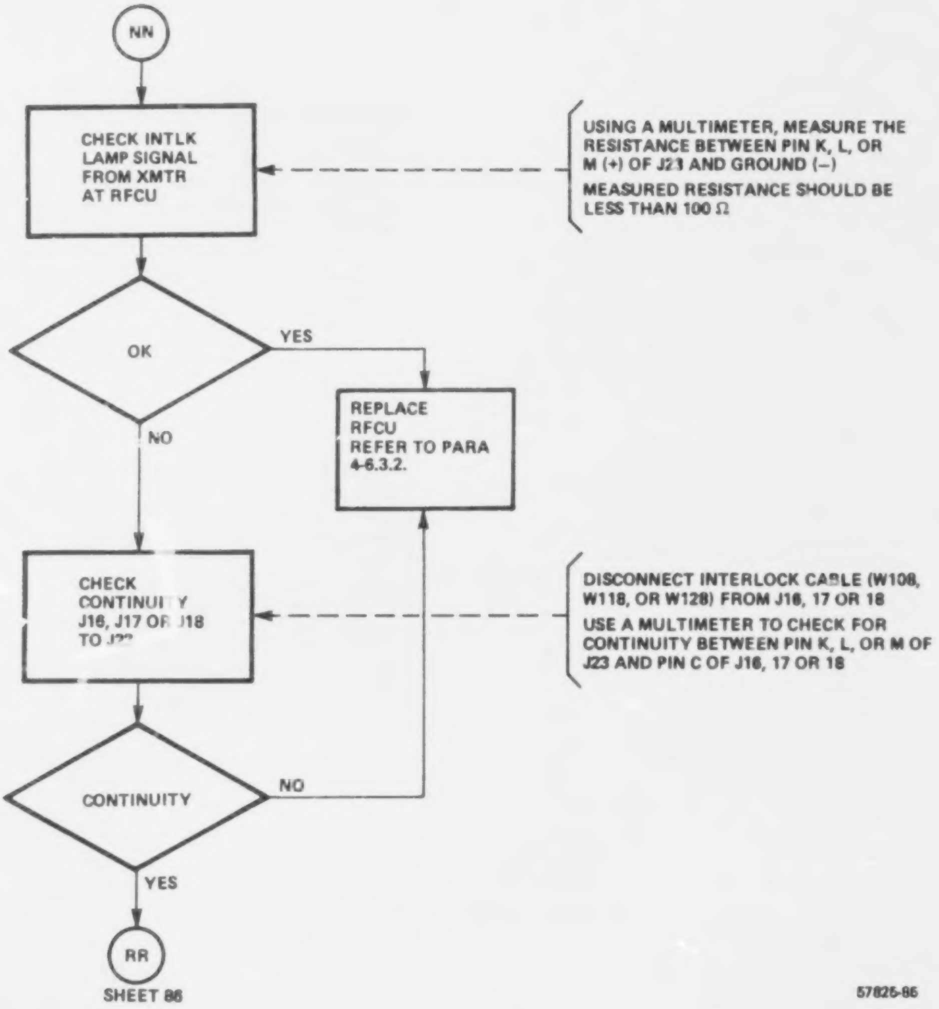
DISCONNECT CABLE W230 CONNECTED TO J1.

USING A MULTIMETER, MEASURE THE VOLTAGE BETWEEN PIN F (+) AND PIN C, D, OR E FOR XMTR 1, XMTR 2 OR XMTR 3 RESPECTIVELY OF CABLE W230 (P2).

MEASURED VOLTAGE SHOULD BE 24 ± 1 VDC.

57826-84

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 84 of 93)


NN
CHECK INTLK LAMP SIGNAL FROM XMTR AT RFCU
OK
YES
NO
REPLACE RFCU REFER TO PARA 4-6.3.2.
CHECK CONTINUITY J16, J17 OR J18 TO J23
CONTINUITY
NO
YES
RR
SHEET 86
57825-86

USING A MULTIMETER, MEASURE THE RESISTANCE BETWEEN PIN K, L, OR M (+) OF J23 AND GROUND (–)

MEASURED RESISTANCE SHOULD BE LESS THAN 100 Ω

DISCONNECT INTERLOCK CABLE (W108, W118, OR W128) FROM J16, 17 OR 18

USE A MULTIMETER TO CHECK FOR CONTINUITY BETWEEN PIN K, L, OR M OF J23 AND PIN C OF J16, 17 OR 18

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 85 of 93)

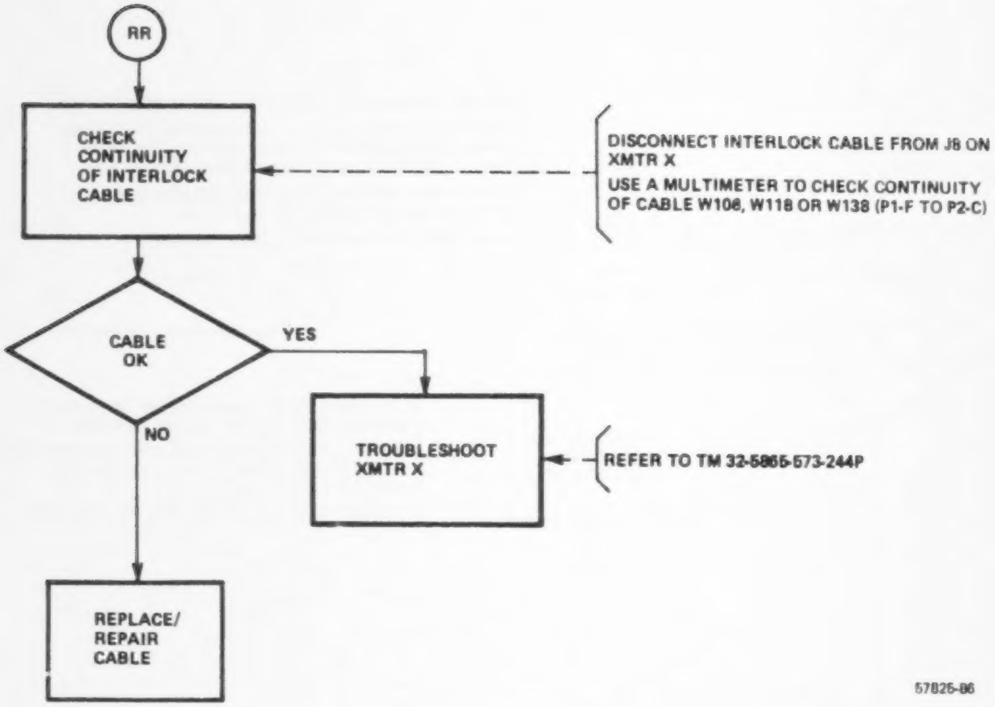
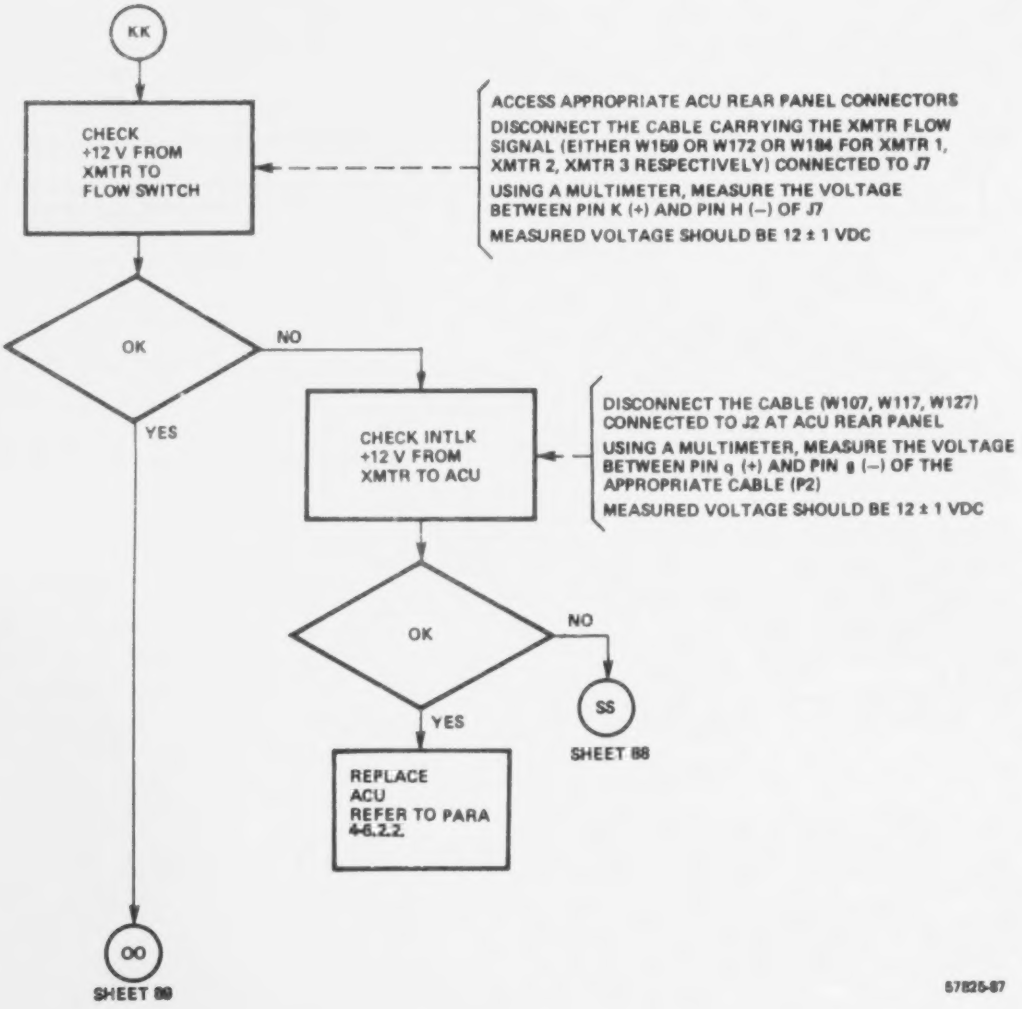

RR
CHECK CONTINUITY OF INTERLOCK CABLE
DISCONNECT INTERLOCK CABLE FROM J8 ON XMTR X
USE A MULTIMETER TO CHECK CONTINUITY OF CABLE W108, W118 OR W138 (P1-F TO P2-C)
CABLE OK
YES
NO
TROUBLESHOOT XMTR X
REFER TO TM 32-5865-573-24&P
REPLACE/ REPAIR CABLE
57825-86

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 86 of 93)


KK
CHECK +12 V FROM XMTR TO FLOW SWITCH
OK
NO
YES
CHECK INTLK +12 V FROM XMTR TO ACU
OK
NO
YES
SS
SHEET 88
REPLACE ACU REFER TO PARA 4-6.2.2.
OO
SHEET 89
57825-87

ACCESS APPROPRIATE ACU REAR PANEL CONNECTORS

DISCONNECT THE CABLE CARRYING THE XMTR FLOW SIGNAL (EITHER W159 OR W172 OR W184 FOR XMTR 1, XMTR 2, XMTR 3 RESPECTIVELY) CONNECTED TO J7

USING A MULTIMETER, MEASURE THE VOLTAGE BETWEEN PIN K (+) AND PIN H (–) OF J7

MEASURED VOLTAGE SHOULD BE 12 ± 1 VDC

DISCONNECT THE CABLE (W107, W117, W127) CONNECTED TO J2 AT ACU REAR PANEL

USING A MULTIMETER, MEASURE THE VOLTAGE BETWEEN PIN q (+) AND PIN g (–) OF THE APPROPRIATE CABLE (P2)

MEASURED VOLTAGE SHOULD BE 12 ± 1 VDC

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 87 of 93)

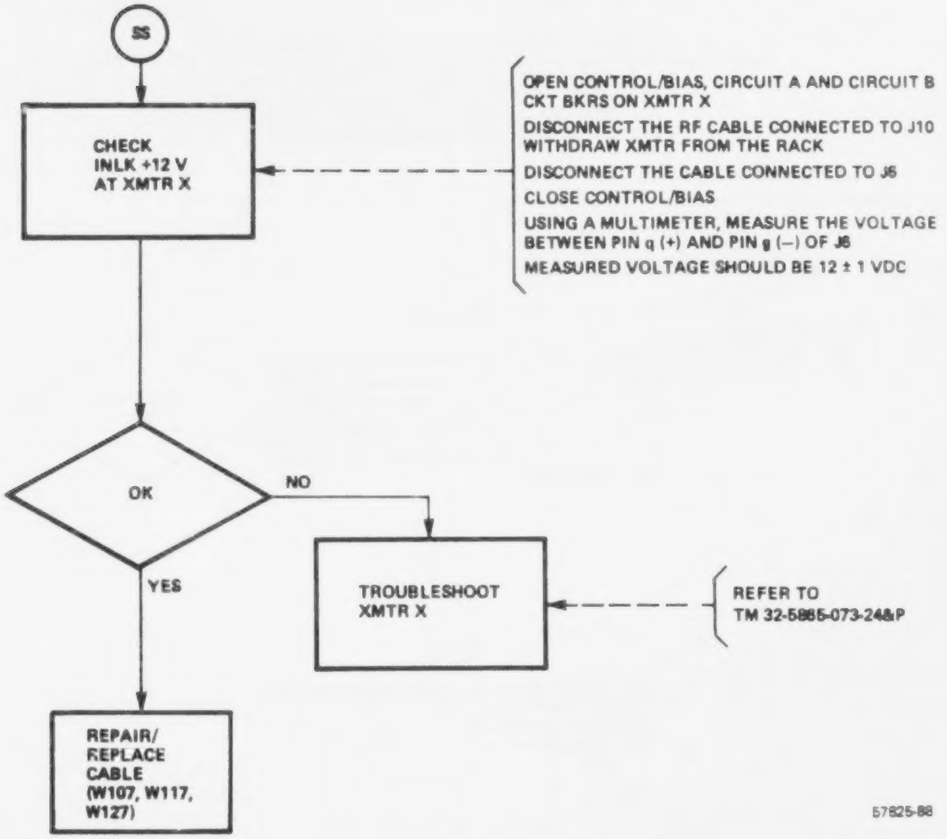
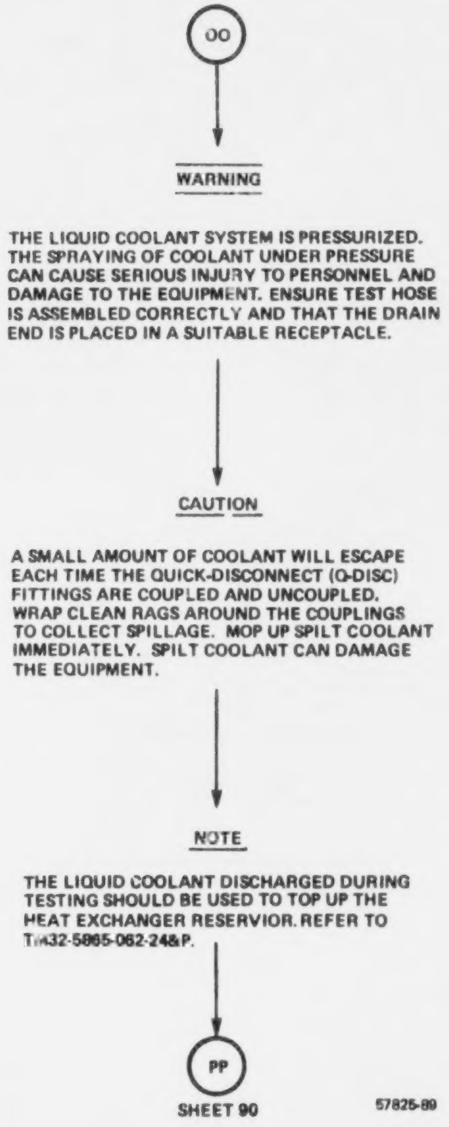

SS
CHECK INLK +12 V AT XMTR X
OPEN CONTROL/BIAS, CIRCUIT A AND CIRCUIT B CKT BKRS ON XMTR X
DISCONNECT THE RF CABLE CONNECTED TO J10 WITHDRAW XMTR FROM THE RACK
DISCONNECT THE CABLE CONNECTED TO J6
CLOSE CONTROL/BIAS
USING A MULTIMETER, MEASURE THE VOLTAGE BETWEEN PIN q (+) AND PIN g (–) OF J6
MEASURED VOLTAGE SHOULD BE 12 ± 1 VDC
OK
NO
YES
TROUBLESHOOT XMTR X
REFER TO TM 32-5865-073-24&P
REPAIR/ REPLACE CABLE (W107, W117, W127)
57825-88

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 88 of 93)



WARNING

THE LIQUID COOLANT SYSTEM IS PRESSURIZED. THE SPRAYING OF COOLANT UNDER PRESSURE CAN CAUSE SERIOUS INJURY TO PERSONNEL AND DAMAGE TO THE EQUIPMENT. ENSURE TEST HOSE IS ASSEMBLED CORRECTLY AND THAT THE DRAIN END IS PLACED IN A SUITABLE RECEPTACLE.

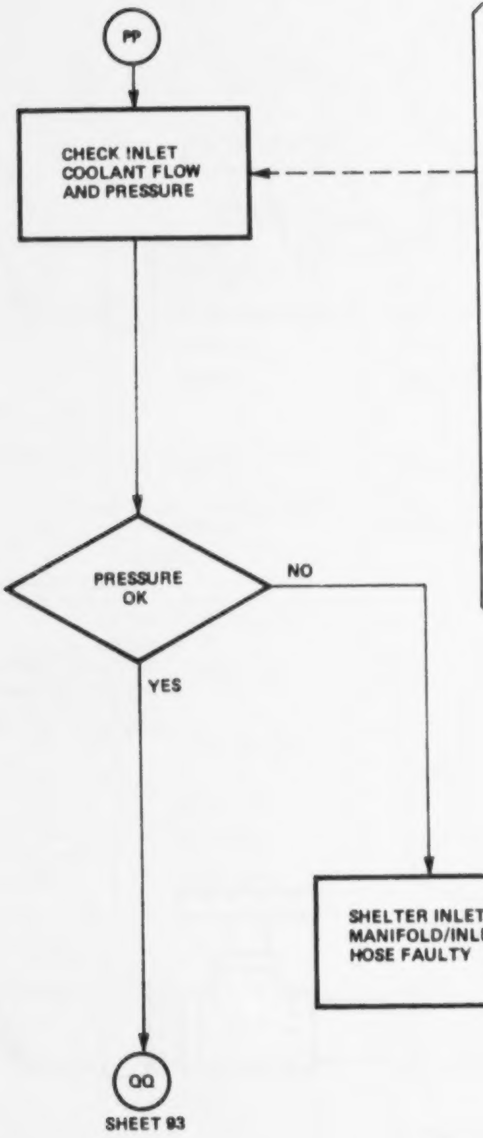
CAUTION

A SMALL AMOUNT OF COOLANT WILL ESCAPE EACH TIME THE QUICK-DISCONNECT (Q-DISC) FITTINGS ARE COUPLED AND UNCOUPLED. WRAP CLEAN RAGS AROUND THE COUPLINGS TO COLLECT SPILLAGE. MOP UP SPILT COOLANT IMMEDIATELY. SPILT COOLANT CAN DAMAGE THE EQUIPMENT.

NOTE

THE LIQUID COOLANT DISCHARGED DURING TESTING SHOULD BE USED TO TOP UP THE HEAT EXCHANGER RESERVIOR. REFER TO TM32-5865-062-24&P.

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 89 of 93)


PP
CHECK INLET COOLANT FLOW AND PRESSURE
PRESSURE OK
NO
YES
SHELTER INLET MANIFOLD/INLET HOSE FAULTY
QQ
SHEET 93

ASSEMBLE THE TEST HOSE A AS SHOWN ON SHEET 91

AT THE DISPLAY SET PRESS HEAT EXCH POWER OFF SWITCH

OPEN CONTROL AND POWER CIRCUIT BREAKERS ON PDP

DISCONNECT THE RF CABLE FROM J10

WITHDRAW THE XMTR X FROM THE RACK UNTIL IT LOCKS IN SLIDE TRAVEL ALLOWING ACCESS TO THE COOLANT INLET CONNECTION ON THE REAR OF THE CHASSIS

DISCONNECT THE INLET HOSE FROM THE Q-DISC CONNECTOR

CHECK THAT THE VALVE ON THE TEST HOSE IS SHUT TIGHT (FULLY CLOCKWISE)

COUPLE THE TEST HOSE TO THE INLET HOSE

AT THE DISPLAY SET, PRESS HEAT EXCH POWER ON SWITCH

INSERT THE END OF THE TEST HOSE INTO A 55 GAL DRUM TO COLLECT ESCAPING COOLANT

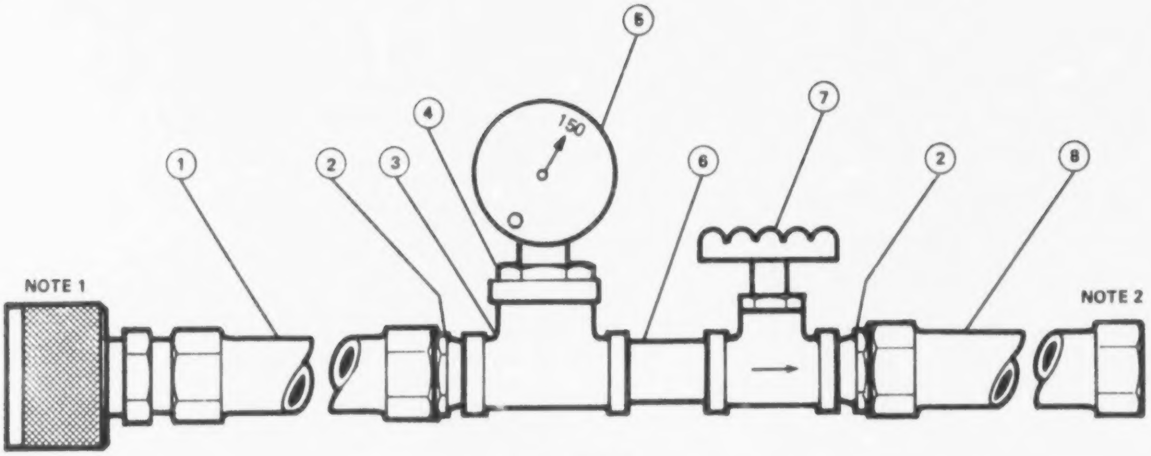
OPEN THE VALVE SLIGHTLY

CHECK THAT COOLANT FLOWS STEADILY FROM THE END OF THE TEST HOSE AND THAT THE PRESSURE GAUGE INDICATES BETWEEN 75 AND 85 PSI

CLOSE VALVE TIGHTLY

57825-90

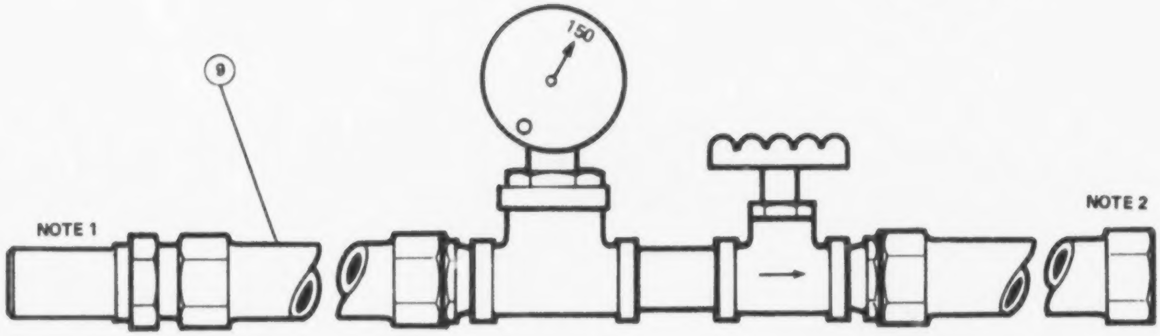
Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 90 of 93)



TEST HOSE A

NOTES

1. CONNECT TO Q-DISC FITTING ON XMTR AS DIRECTED IN FLFC
2. INSERT IN CLEAN 55 GALLON CONTAINER
3. USE SEALING COMPOUND (ITEM 10, SHEET 92) ON PIPE SHEET 92



TEST HOSE B

57825-91

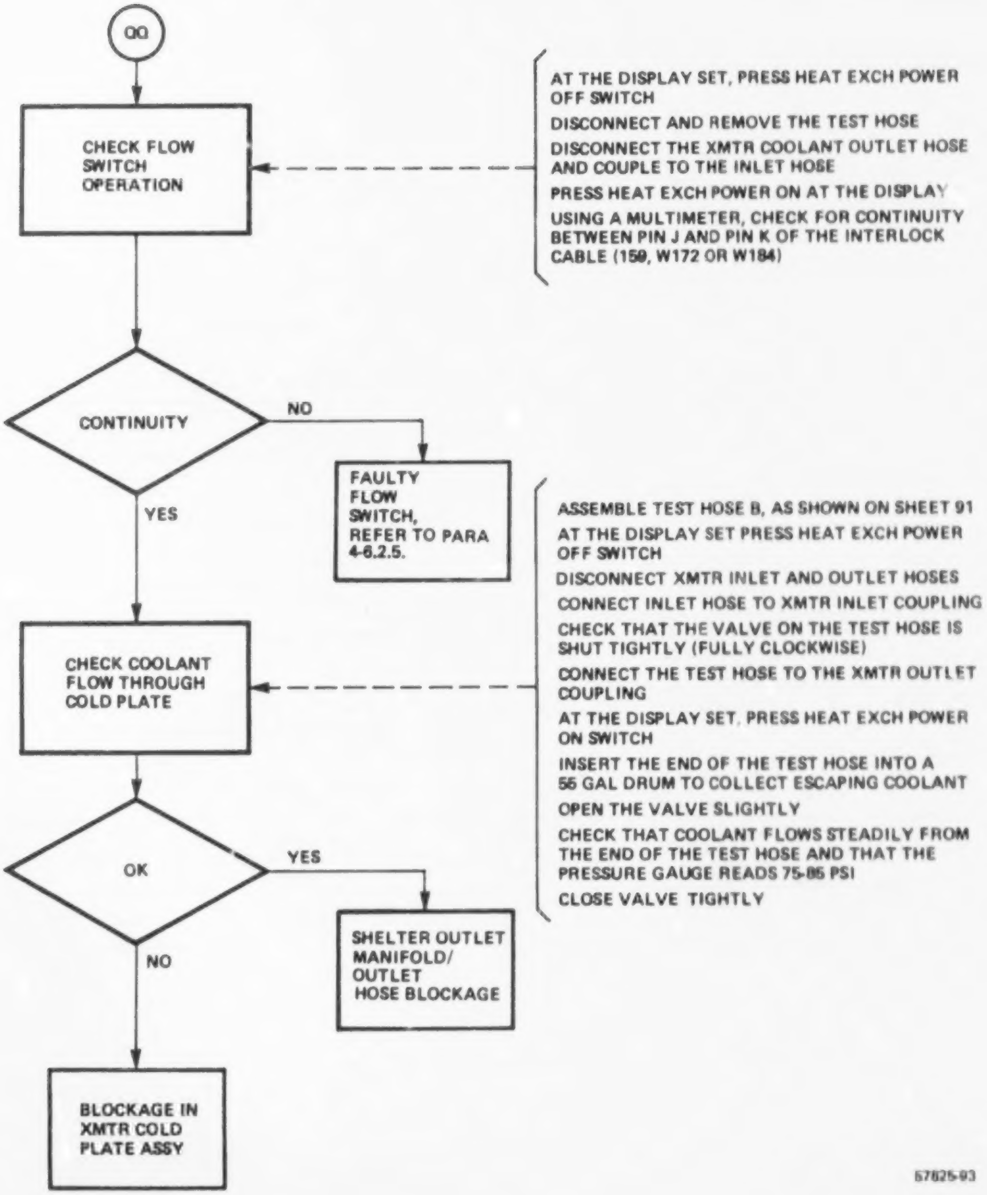
Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 91 of 93)

TEST HOSE ASSEMBLY, PARTS LIST

ITEM NO	PART/MODEL NO	FSCM	HOS DESCRIPTION	QTY
1	5052228-3	57958	HOSE ASSEMBLY	1
2	AN816-12	88044	PIPE-TO-TUBE ADAPTER 3/4 NPTM TO 3/4 TUBE 37° FLARE GALVANIZED STEEL OR BRONZE	2
3	AN917-6	88044	3/4 NPT TEE GALVANIZED STEEL OR BRONZE	1
4	AN912-9	88044	3/4 NPTM TO ¼ NPTF REDUCER GALVANIZED STEEL OR BRONZE	1
5	2-½ IN DIAMETER P500 0-200 PSI ¼ NPT	61349	PRESSURE GAGE	1
6	MS51953-105	96806	3/4 NPT X 4 IN LONG NIPPLE PIPE GALVANIZED STEEL	1
7	V-1021/M-15105	41947	3/4 NPTF GATE VALVE, BRONZE	1
8	5052268-101	57958	HOSE ASSEMBLY	1
9	5052228-4	57958	HOSE ASSEMBLY	1
10	MIL-T-22361 (WEP)	81349	SEALING COMPOUND	A/R

57825-92

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 92 of 93)


QQ
CHECK FLOW SWITCH OPERATION
CONTINUITY
NO
YES
FAULTY FLOW SWITCH, REFER TO PARA 4-6.2.5.
CHECK COOLANT FLOW THROUGH COLD PLATE
OK
YES
NO
SHELTER OUTLET MANIFOLD/ OUTLET HOSE BLOCKAGE
BLOCKAGE IN XMTR COLD PLATE ASSY
57825-93

AT THE DISPLAY SET, PRESS HEAT EXCH POWER OFF SWITCH

DISCONNECT AND REMOVE THE TEST HOSE

DISCONNECT THE XMTR COOLANT OUTLET HOSE AND COUPLE TO THE INLET HOSE

PRESS HEAT EXCH POWER ON AT THE DISPLAY

USING A MULTIMETER, CHECK FOR CONTINUITY BETWEEN PIN J AND PIN K OF THE INTERLOCK CABLE (159, W172 OR W184)

ASSEMBLE TEST HOSE B, AS SHOWN ON SHEET 91

AT THE DISPLAY SET PRESS HEAT EXCH POWER OFF SWITCH

DISCONNECT XMTR INLET AND OUTLET HOSES

CONNECT INLET HOSE TO XMTR INLET COUPLING

CHECK THAT THE VALVE ON THE TEST HOSE IS SHUT TIGHTLY (FULLY CLOCKWISE)

CONNECT THE TEST HOSE TO THE XMTR OUTLET COUPLING

AT THE DISPLAY SET, PRESS HEAT EXCH POWER ON SWITCH

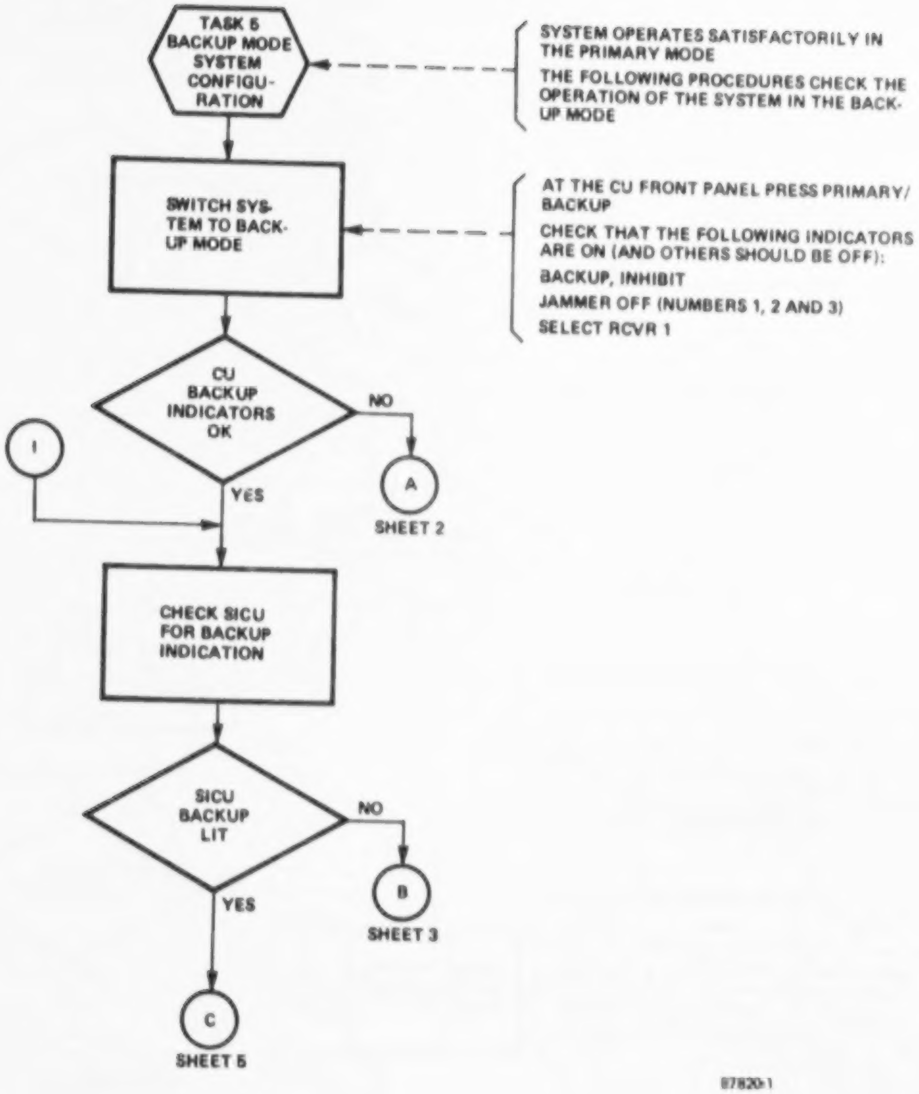
INSERT THE END OF THE TEST HOSE INTO A 55 GAL DRUM TO COLLECT ESCAPING COOLANT

OPEN THE VALVE SLIGHTLY

CHECK THAT COOLANT FLOWS STEADILY FROM THE END OF THE TEST HOSE AND THAT THE PRESSURE GAUGE READS 75-85 PSI

CLOSE VALVE TIGHTLY

Figure 4-4. System Troubleshooting FLFC, Task 4 (Sheet 93 of 93)


TASK 5 BACKUP MODE SYSTEM CONFIGURATION
SWITCH SYSTEM TO BACKUP MODE
CU BACKUP INDICATORS OK
NO
A
SHEET 2
I
YES
CHECK SICU FOR BACKUP INDICATION
SICU BACKUP LIT
NO
B
SHEET 3
YES
C
SHEET 5
87820-1

SYSTEM OPERATES SATISFACTORILY IN THE PRIMARY MODE

THE FOLLOWING PROCEDURES CHECK THE OPERATION OF THE SYSTEM IN THE BACKUP MODE

AT THE CU FRONT PANEL PRESS PRIMARY/BACKUP

CHECK THAT THE FOLLOWING INDICATORS ARE ON (AND OTHERS SHOULD BE OFF):

BACKUP, INHIBIT

JAMMER OFF (NUMBERS 1, 2 AND 3)

SELECT RCVR 1

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 1 of 36)

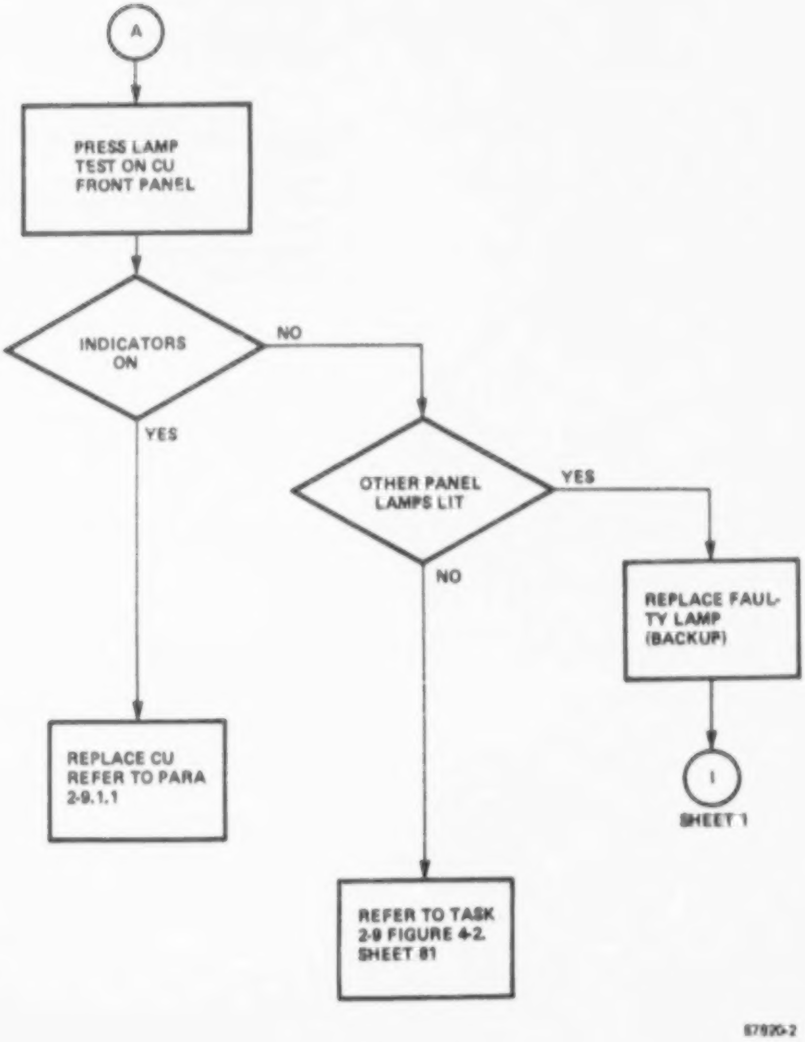
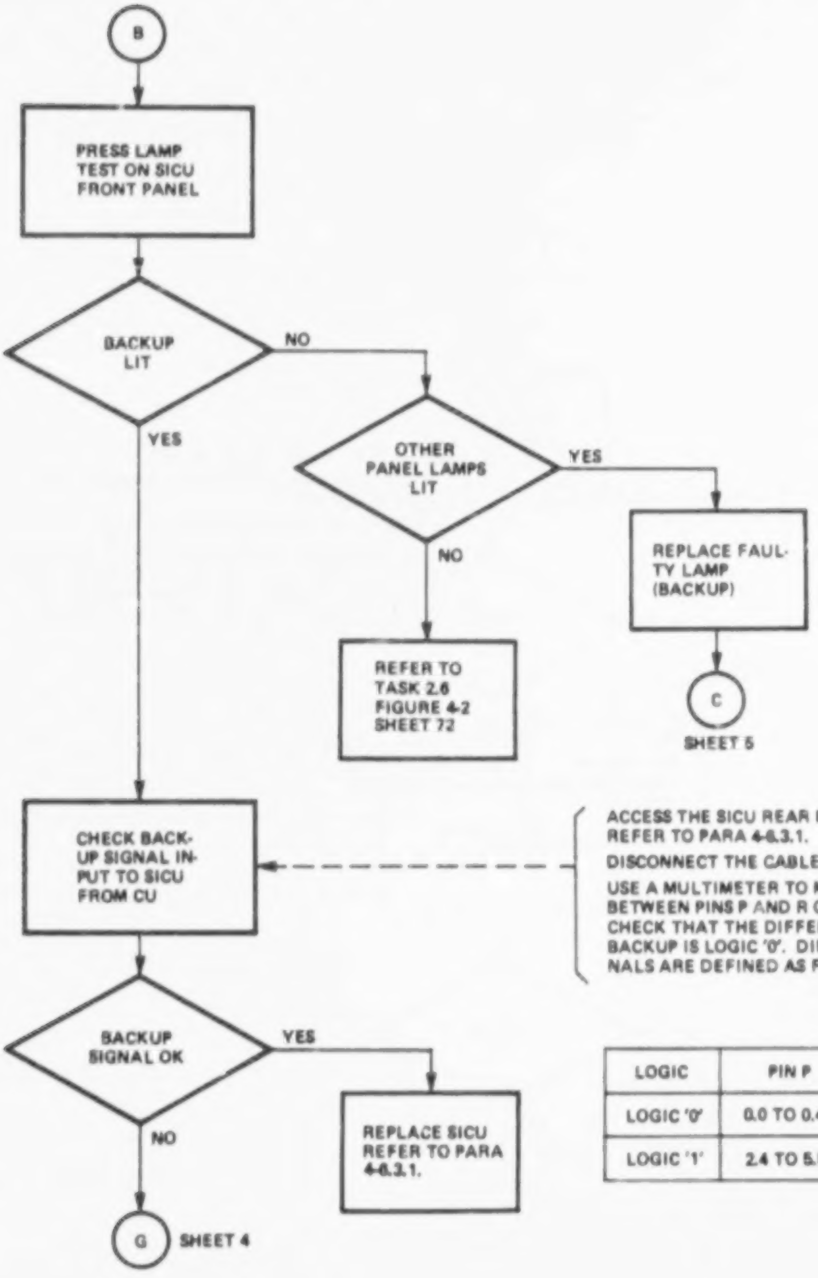

A
PRESS LAMP TEST ON CU FRONT PANEL
INDICATORS ON
NO
YES
OTHER PANEL LAMPS LIT
YES
NO
REPLACE FAULTY LAMP (BACKUP)
I
SHEET 1
REPLACE CU REFER TO PARA 2-9.1.1
REFER TO TASK 2-9 FIGURE 4-2. SHEET 81
87920-2

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 2 of 36)


B
PRESS LAMP TEST ON SICU FRONT PANEL
BACKUP LIT
NO
YES
OTHER PANEL LAMPS LIT
YES
NO
REPLACE FAULTY LAMP (BACKUP)
REFER TO TASK 2.6 FIGURE 4-2 SHEET 72
C
SHEET 5
CHECK BACKUP SIGNAL INPUT TO SICU FROM CU
BACKUP SIGNAL OK
YES
NO
REPLACE SICU REFER TO PARA 4-6.3.1.
G
SHEET 4

ACCESS THE SICU REAR PANEL CONNECTORS. REFER TO PARA 4-6.3.1.

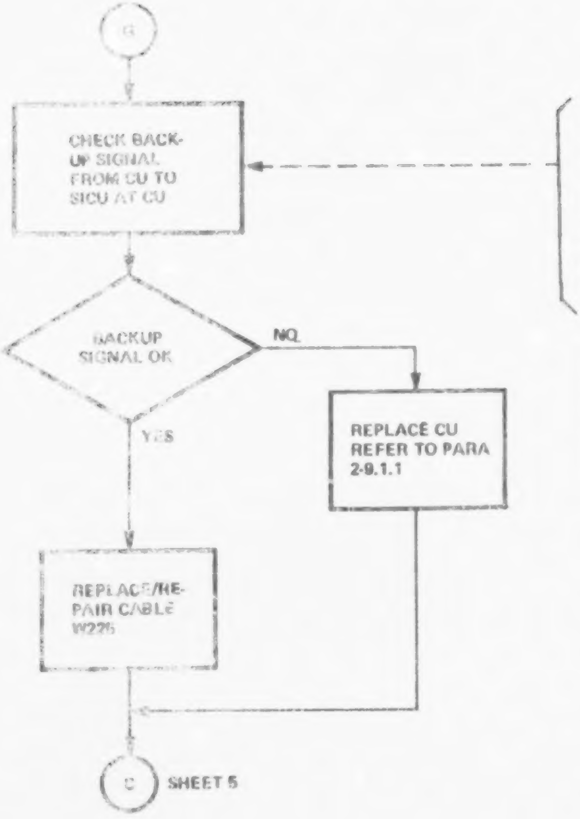
DISCONNECT THE CABLE CONNECTED TO J11

USE A MULTIMETER TO MEASURE THE VOLTAGE BETWEEN PINS P AND R OF P11 AND GROUND. CHECK THAT THE DIFFERENTIAL SIGNAL BACKUP IS LOGIC '0'. DIFFERENTIAL LOGIC SIGNALS ARE DEFINED AS FOLLOWS:

LOGIC	PIN P	PIN R
LOGIC '0'	0.0 TO 0.4V	2.4 TO 5.5V
LOGIC '1'	2.4 TO 5.5V	0.0 TO 0.4V

57820-3

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 3 of 36)


G
CHECK BACK-UP SIGNAL FROM CU TO SICU AT CU
BACKUP SIGNAL OK
NO
YES
REPLACE CU REFER TO PARA 2-9.1.1
REPLACE/RE-PAIR CABLE W225
C
SHEET 5

RECONNECT W225 TO J11 ON SICU

ACCESS THE TJCU REAR PANEL CONNECTORS, REFER TO PARA 2-9.1.1

REMOVE THE CABLE CONNECTED TO J4

USE A MULTIMETER TO MEASURE THE VOLTAGE BETWEEN PIN P AND R OF J4 AND GROUND. CHECK THAT THE DIFFERENTIAL SIGNAL BACKUP IS A LOGIC '0'. DIFFERENTIAL LOGIC SIGNALS ARE DEFINED AS FOLLOWS:

LOGIC	PIN P	PIN R
LOGIC '0'	0.0 TO 0.4V	2.4 TO 5.5V
LOGIC '1'	2.4 TO 5.5V	0.0 TO 0.4V

57820-4

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 4 of 36)

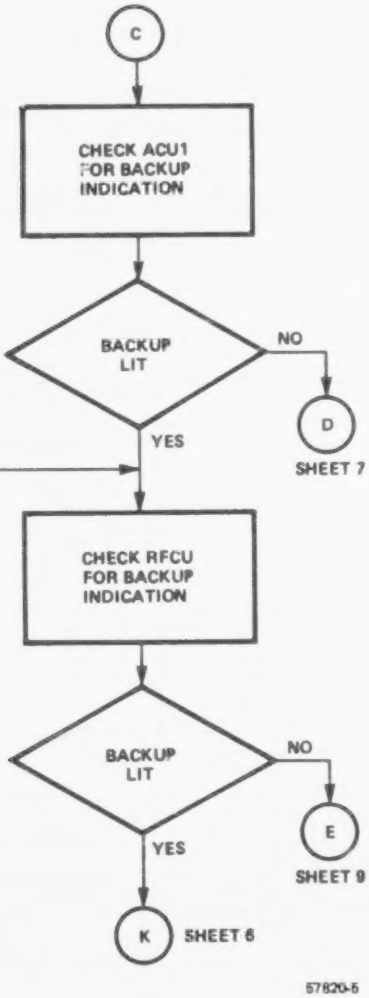

C
CHECK ACU1 FOR BACKUP INDICATION
BACKUP LIT
NO
D
SHEET 7
J
YES
CHECK RFCU FOR BACKUP INDICATION
BACKUP LIT
NO
E
SHEET 9
YES
K
SHEET 6
57820-5

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 5 of 36)

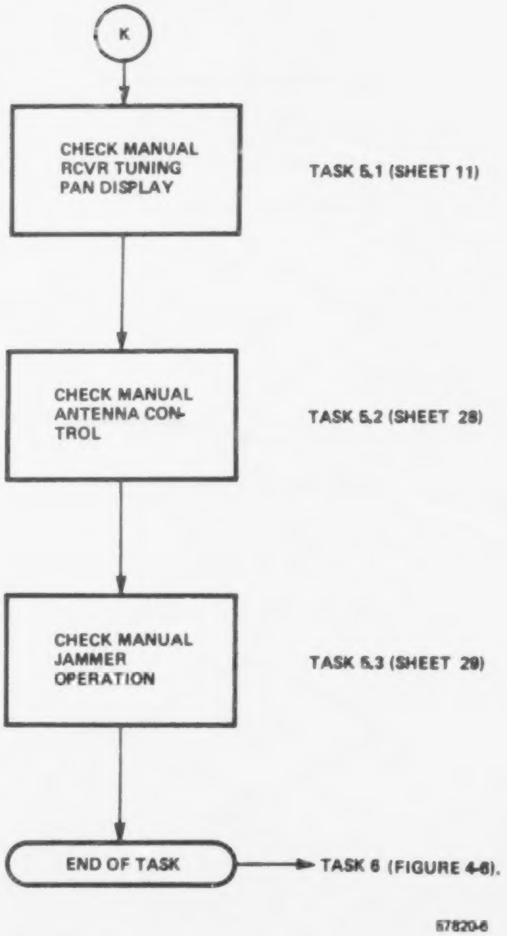
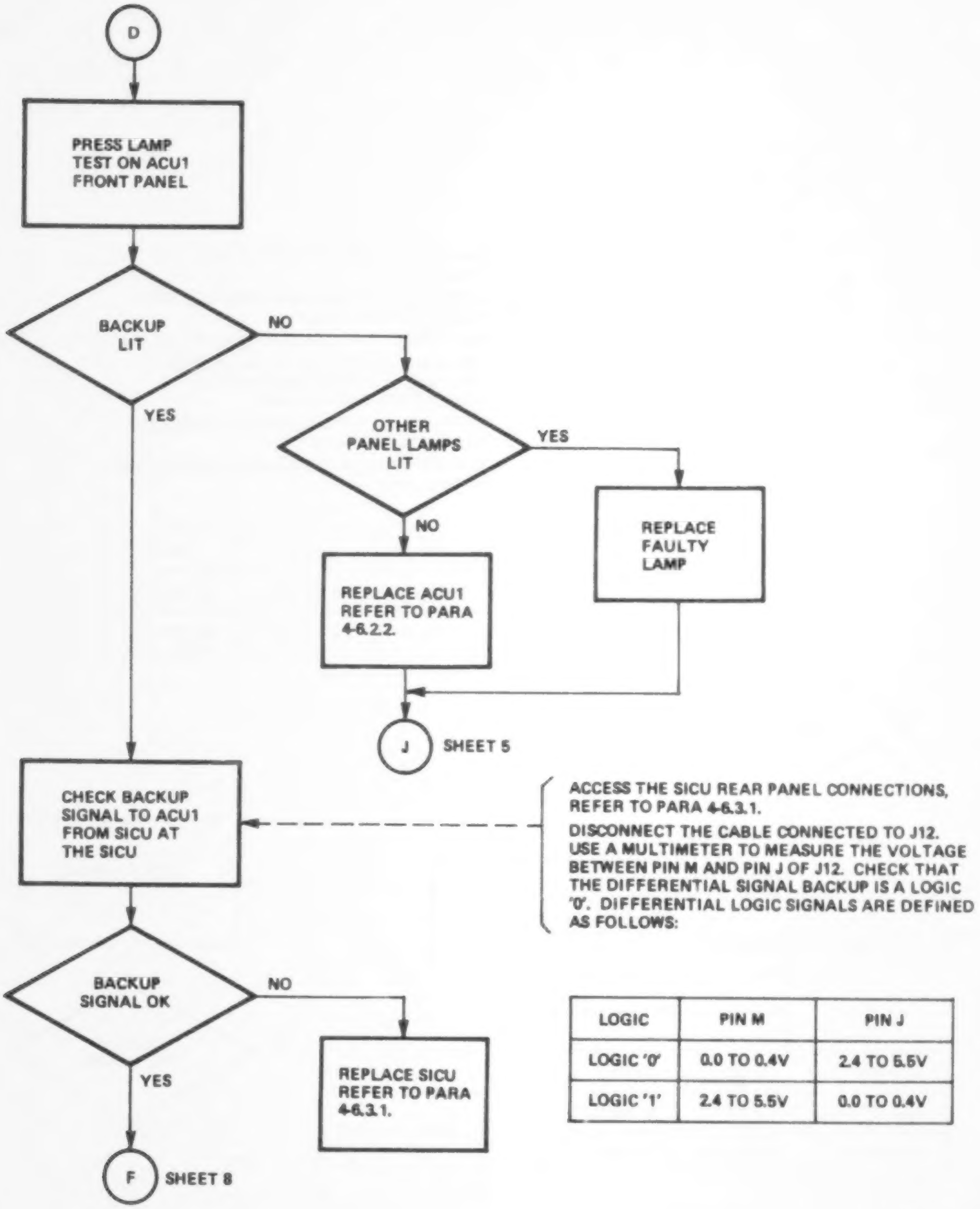


Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 6 of 36)

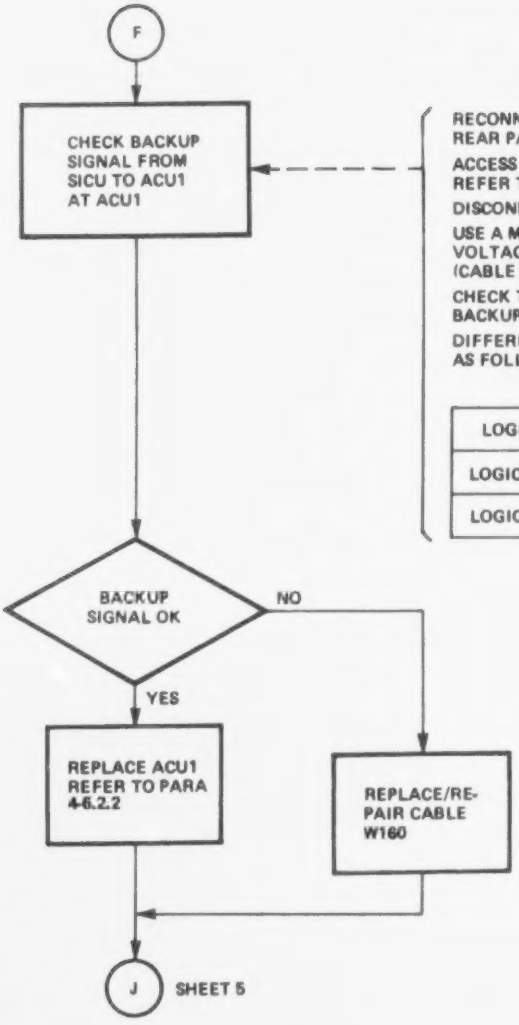

D
PRESS LAMP TEST ON ACU1 FRONT PANEL
BACKUP LIT
NO
YES
OTHER PANEL LAMPS LIT
YES
NO
REPLACE FAULTY LAMP
REPLACE ACU1 REFER TO PARA 4-6.2.2.
J
SHEET 5
CHECK BACKUP SIGNAL TO ACU1 FROM SICU AT THE SICU
BACKUP SIGNAL OK
NO
YES
REPLACE SICU REFER TO PARA 4-6.3.1.
F
SHEET 8
57820-7

ACCESS THE SICU REAR PANEL CONNECTIONS, REFER TO PARA 4-6.3.1.

DISCONNECT THE CABLE CONNECTED TO J12. USE A MULTIMETER TO MEASURE THE VOLTAGE BETWEEN PIN M AND PIN J OF J12. CHECK THAT THE DIFFERENTIAL SIGNAL BACKUP IS A LOGIC '0'. DIFFERENTIAL LOGIC SIGNALS ARE DEFINED AS FOLLOWS:

LOGIC	PIN M	PIN J
LOGIC '0'	0.0 TO 0.4V	2.4 TO 5.5V
LOGIC '1'	2.4 TO 5.5V	0.0 TO 0.4V

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 7 of 36)


F
CHECK BACKUP SIGNAL FROM SICU TO ACU1 AT ACU1
BACKUP SIGNAL OK
NO
YES
REPLACE ACU1 REFER TO PARA 4-6.2.2
REPLACE/RE-PAIR CABLE W160
J
SHEET 5

RECONNECT CABLE TO J12 AT SICU REAR PANEL

ACCESS ACU1 REAR PANEL CONNECTIONS REFER TO PARA 4-6.2.2

DISCONNECT THE CABLE CONNECTED TO J8

USE A MULTIMETER TO MEASURE THE VOLTAGE BETWEEN PINS M AND J OF P2 (CABLE W160) AND GROUND

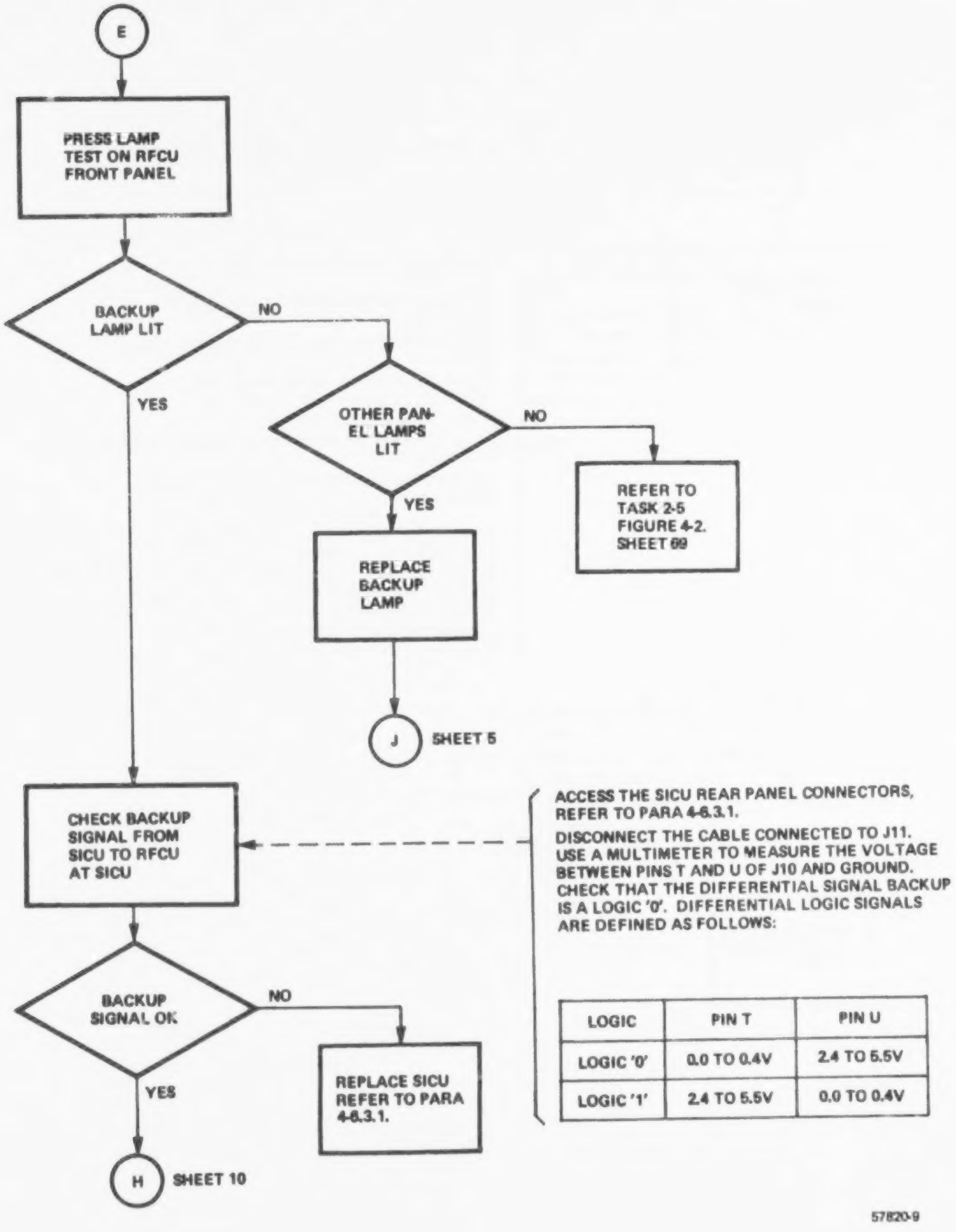
CHECK THAT THE DIFFERENTIAL SIGNAL BACKUP IS A LOGIC '0'

DIFFERENTIAL LOGIC SIGNALS ARE DEFINED AS FOLLOWS:

LOGIC	PIN M	PIN J
LOGIC '0'	0.0 TO 0.4V	2.4 TO 5.5V
LOGIC '1'	2.4 TO 5.5V	0.0 TO 0.4V

57820-8

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 8 of 36)

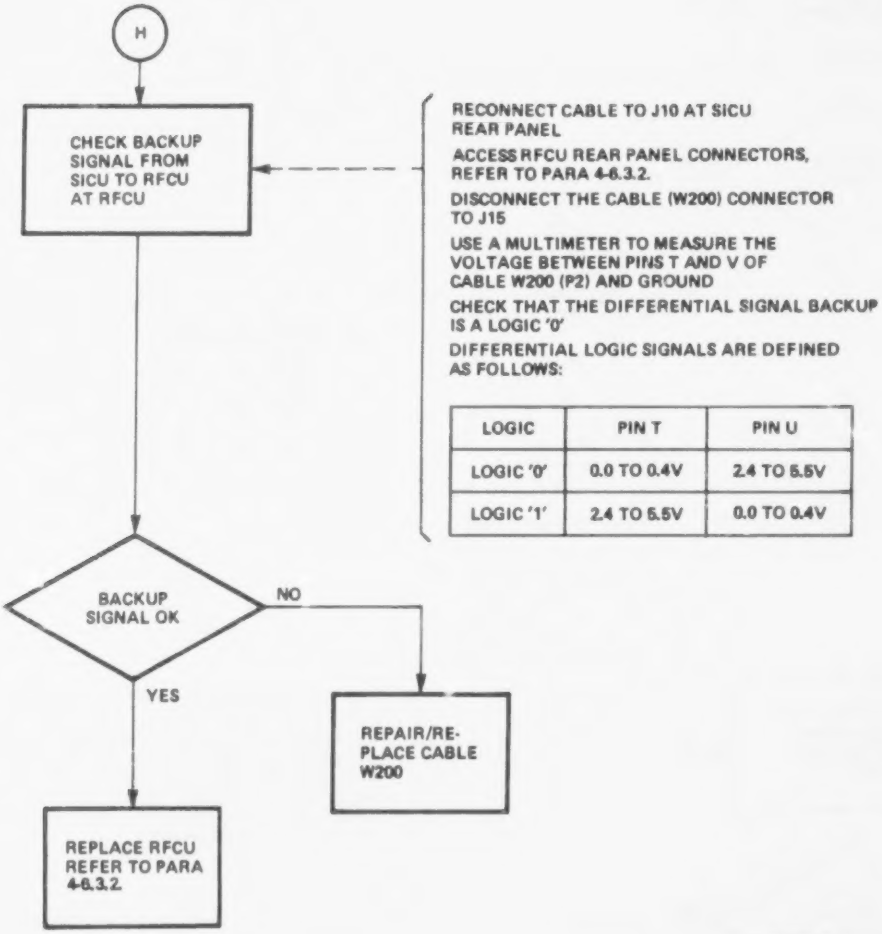

E
PRESS LAMP TEST ON RFCU FRONT PANEL
BACKUP LAMP LIT
NO
YES
OTHER PANEL LAMPS LIT
NO
YES
REFER TO TASK 2-5 FIGURE 4-2. SHEET 69
REPLACE BACKUP LAMP
J
SHEET 5
CHECK BACKUP SIGNAL FROM SICU TO RFCU AT SICU
BACKUP SIGNAL OK
NO
YES
REPLACE SICU REFER TO PARA 4-6.3.1.
H
SHEET 10
57820-9

ACCESS THE SICU REAR PANEL CONNECTORS, REFER TO PARA 4-6.3.1.

DISCONNECT THE CABLE CONNECTED TO J11. USE A MULTIMETER TO MEASURE THE VOLTAGE BETWEEN PINS T AND U OF J10 AND GROUND. CHECK THAT THE DIFFERENTIAL SIGNAL BACKUP IS A LOGIC '0'. DIFFERENTIAL LOGIC SIGNALS ARE DEFINED AS FOLLOWS:

LOGIC	PIN T	PIN U
LOGIC '0'	0.0 TO 0.4V	2.4 TO 5.5V
LOGIC '1'	2.4 TO 5.5V	0.0 TO 0.4V

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 9 of 36)


H
CHECK BACKUP SIGNAL FROM SICU TO RFCU AT RFCU
BACKUP SIGNAL OK
NO
YES
REPAIR/RE-PLACE CABLE W200
REPLACE RFCU REFER TO PARA 4-6.3.2.

RECONNECT CABLE TO J10 AT SICU REAR PANEL

ACCESS RFCU REAR PANEL CONNECTORS, REFER TO PARA 4-6.3.2.

DISCONNECT THE CABLE (W200) CONNECTOR TO J15

USE A MULTIMETER TO MEASURE THE VOLTAGE BETWEEN PINS T AND V OF CABLE W200 (P2) AND GROUND

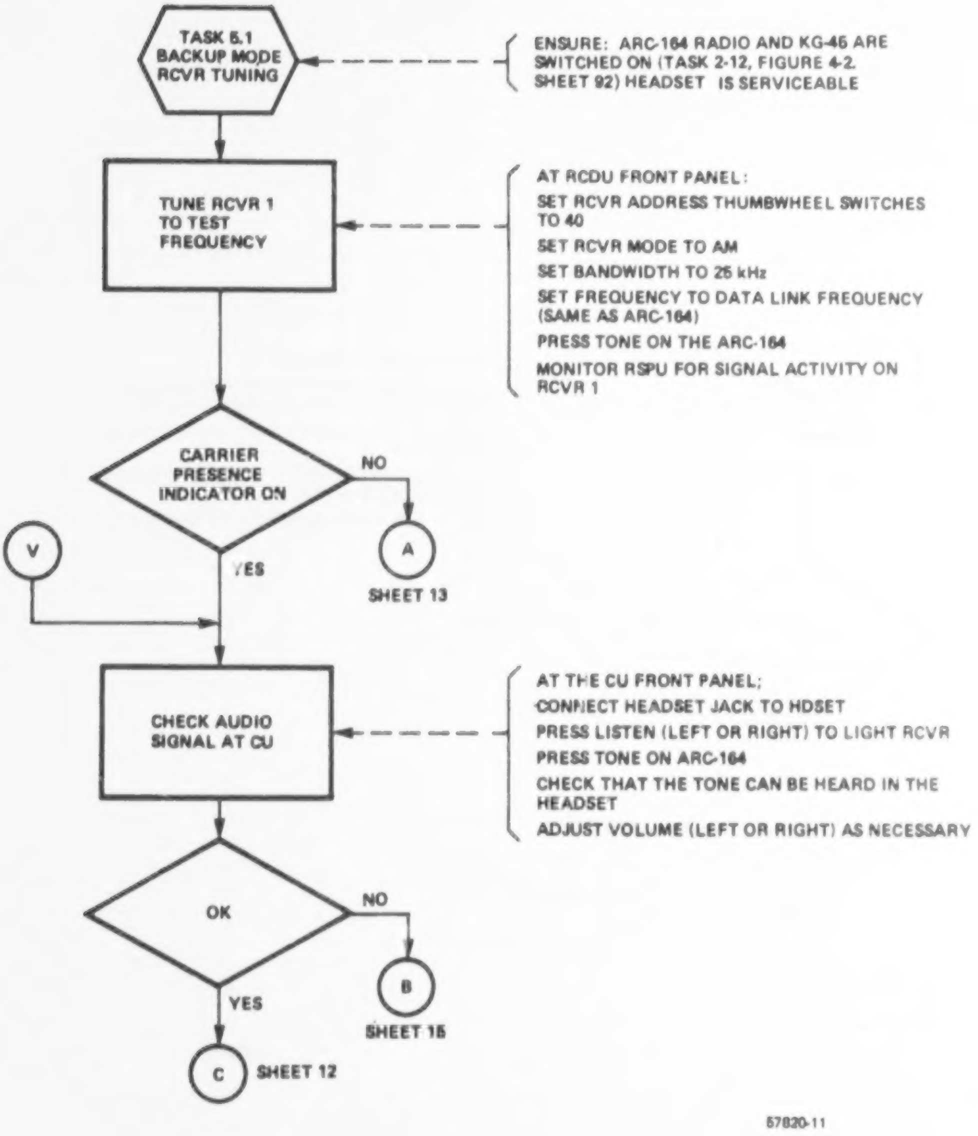
CHECK THAT THE DIFFERENTIAL SIGNAL BACKUP IS A LOGIC '0'

DIFFERENTIAL LOGIC SIGNALS ARE DEFINED AS FOLLOWS:

LOGIC	PIN T	PIN U
LOGIC '0'	0.0 TO 0.4V	2.4 TO 5.5V
LOGIC '1'	2.4 TO 5.5V	0.0 TO 0.4V

57820-10

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 10 of 36)



ENSURE: ARC-164 RADIO AND KG-45 ARE SWITCHED ON (TASK 2-12, FIGURE 4-2, SHEET 92) HEADSET IS SERVICEABLE

AT RCDU FRONT PANEL:

SET RCVR ADDRESS THUMBWHEEL SWITCHES TO 40

SET RCVR MODE TO AM

SET BANDWIDTH TO 25 kHz

SET FREQUENCY TO DATA LINK FREQUENCY (SAME AS ARC-164)

PRESS TONE ON THE ARC-164

MONITOR RSPU FOR SIGNAL ACTIVITY ON RCVR 1

AT THE CU FRONT PANEL;

CONNECT HEADSET JACK TO HDSET

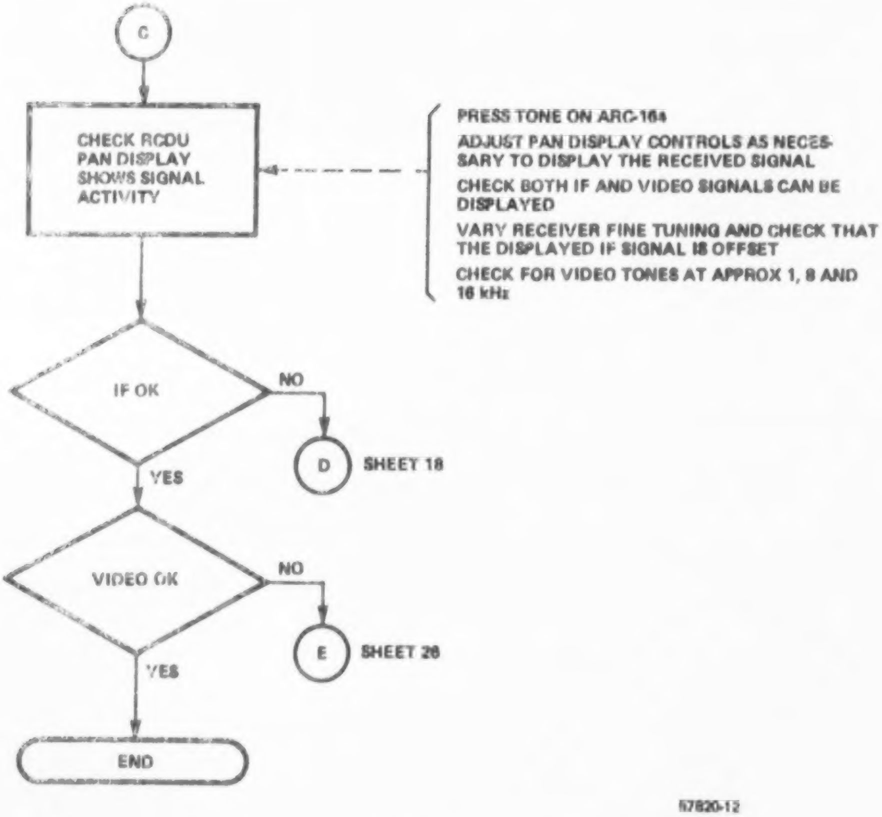
PRESS LISTEN (LEFT OR RIGHT) TO LIGHT RCVR

PRESS TONE ON ARC-164

CHECK THAT THE TONE CAN BE HEARD IN THE HEADSET

ADJUST VOLUME (LEFT OR RIGHT) AS NECESSARY

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 11 of 36)



PRESS TONE ON ARC-164

ADJUST PAN DISPLAY CONTROLS AS NECESSARY TO DISPLAY THE RECEIVED SIGNAL

CHECK BOTH IF AND VIDEO SIGNALS CAN BE DISPLAYED

VARY RECEIVER FINE TUNING AND CHECK THAT THE DISPLAYED IF SIGNAL IS OFFSET

CHECK FOR VIDEO TONES AT APPROX 1, 8 AND 16 kHz

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 12 of 36)

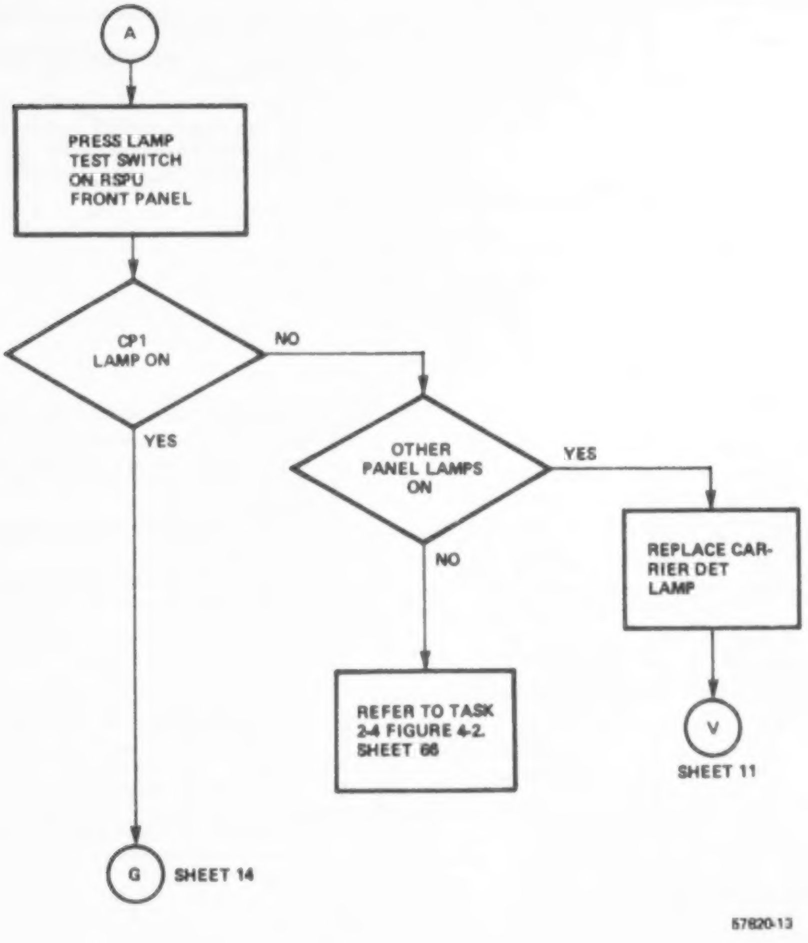
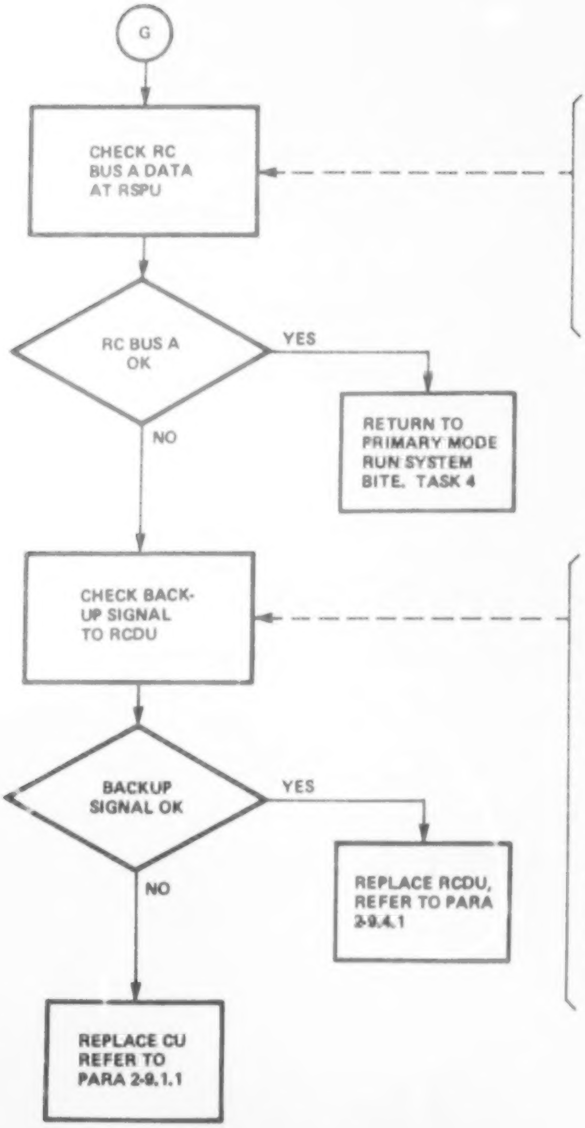


Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 13 of 36)


G
CHECK RC BUS A DATA AT RSPU
RC BUS A OK
YES
NO
RETURN TO PRIMARY MODE RUN SYSTEM BITE. TASK 4
CHECK BACK-UP SIGNAL TO RCDU
BACKUP SIGNAL OK
YES
NO
REPLACE RCDU, REFER TO PARA 2-9.4.1
REPLACE CU REFER TO PARA 2-9.1.1

USE AN OSCILLOSCOPE TO MONITOR RC BUS A AT THE TEST POINTS ON THE RSPU FRONT PANEL AS FOLLOWS:

CHECK THE CLOCK SIGNAL IS PRESENT (250 kHz SQUARE WAVE)

UNLOCK THE FREQUENCY CONTROLS AND VARY FINE TUNING

CHECK THAT A STROBE SIGNAL IS PRESENT

USE THE STROBE SIGNAL AS EXT SYNC FOR THE OSCILLOSCOPE AND MONITOR THE DATA SIGNAL

CHECK THAT THE DATA CHANGES

ACCESS THE RCDU REAR PANEL CONNECTORS

DISCONNECT THE CABLE (W239) CONNECTED TO J3

USING A MULTIMETER, MEASURE THE VOLTAGE BETWEEN PIN D AND PIN E OF CABLE W239 (P2) AND GROUND

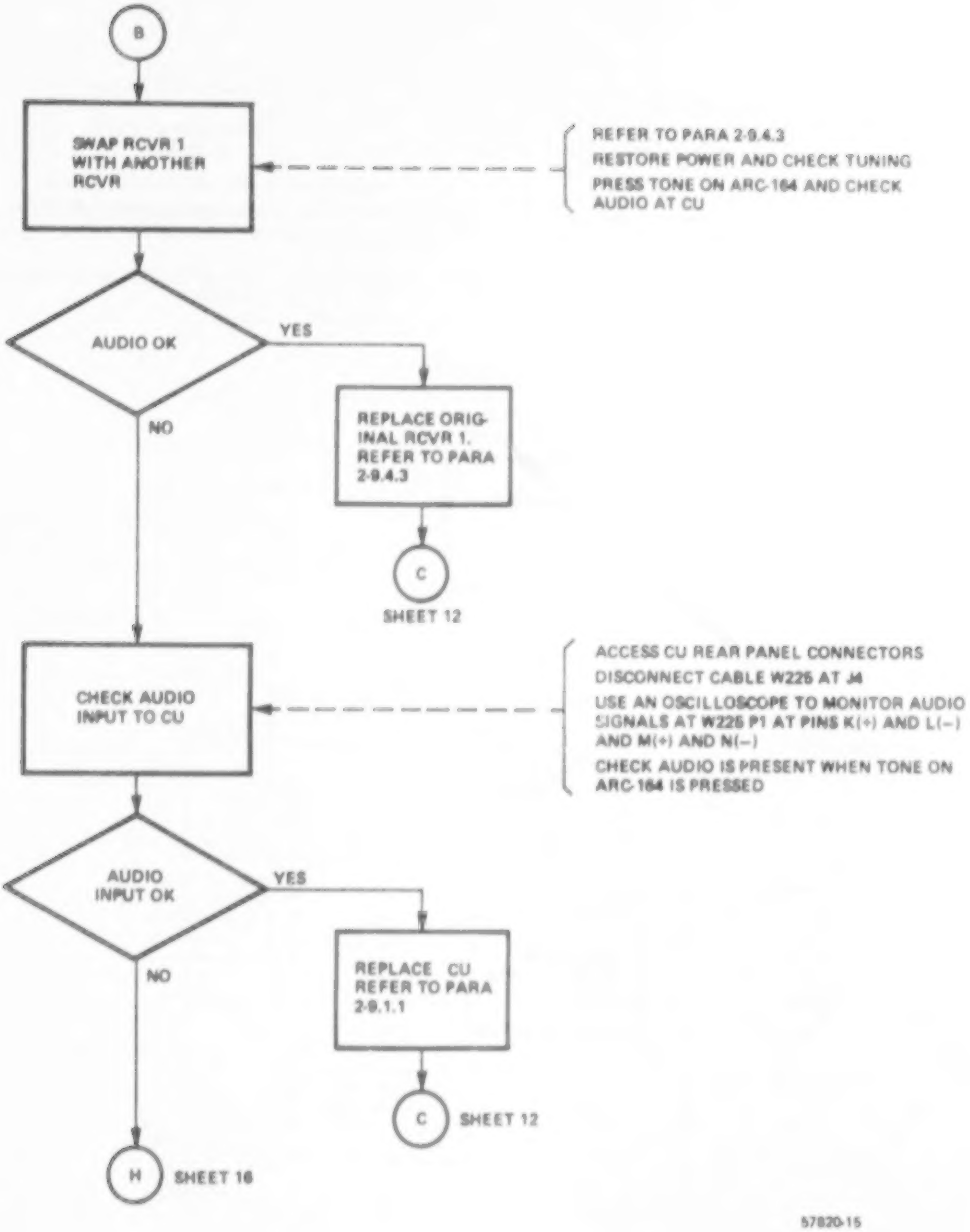
CHECK THAT THE DIFFERENTIAL SIGNAL BACKUP IS A LOGIC '1'

DIFFERENTIAL LOGIC SIGNALS ARE DEFINED AS FOLLOWS:

LOGIC	PIN D	PIN E
LOGIC '0'	0.0 TO 0.4V	2.4 TO 5.5V
LOGIC '1'	2.4 TO 5.5V	0.0 TO 0.4V

57820-14

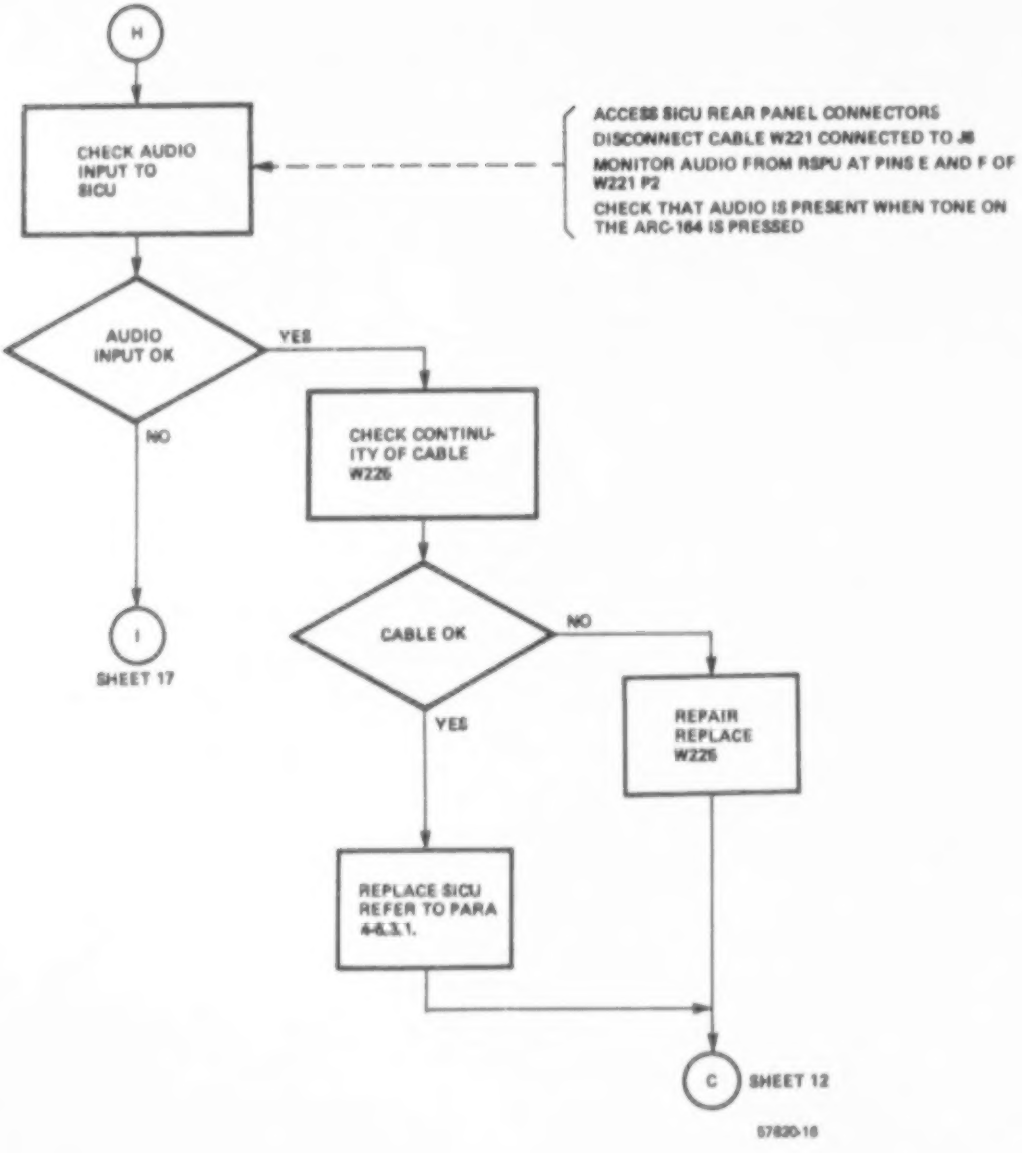
Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 14 of 36)


B
SWAP RCVR 1 WITH ANOTHER RCVR
AUDIO OK
YES
NO
REPLACE ORIGINAL RCVR 1. REFER TO PARA 2-9.4.3
C
SHEET 12
CHECK AUDIO INPUT TO CU
AUDIO INPUT OK
YES
NO
REPLACE CU REFER TO PARA 2-9.1.1
C
SHEET 12
H
SHEET 16
57820-15

REFER TO PARA 2-9.4.3
RESTORE POWER AND CHECK TUNING
PRESS TONE ON ARC-164 AND CHECK AUDIO AT CU

ACCESS CU REAR PANEL CONNECTORS
DISCONNECT CABLE W225 AT J4
USE AN OSCILLOSCOPE TO MONITOR AUDIO SIGNALS AT W225 P1 AT PINS K(+) AND L(–) AND M(+) AND N(–)
CHECK AUDIO IS PRESENT WHEN TONE ON ARC-164 IS PRESSED

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 15 of 36)


H
CHECK AUDIO INPUT TO SICU
AUDIO INPUT OK
YES
NO
I
SHEET 17
CHECK CONTINUITY OF CABLE W226
CABLE OK
NO
YES
REPAIR REPLACE W226
REPLACE SICU REFER TO PARA 4-6.3.1.
C
SHEET 12
57820-16

ACCESS SICU REAR PANEL CONNECTORS
DISCONNECT CABLE W221 CONNECTED TO J8
MONITOR AUDIO FROM RSPU AT PINS E AND F OF W221 P2
CHECK THAT AUDIO IS PRESENT WHEN TONE ON THE ARC-164 IS PRESSED

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 16 of 36)

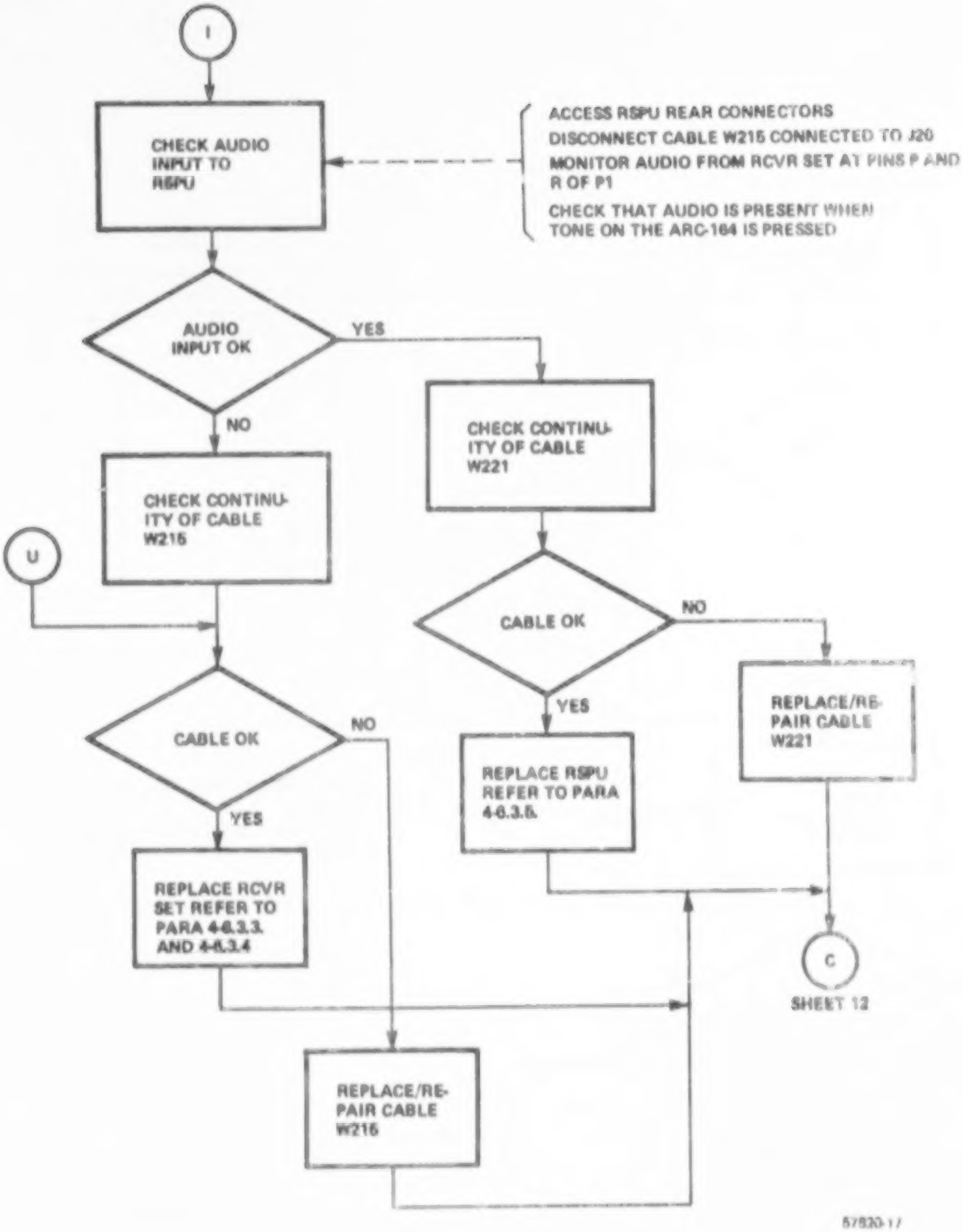
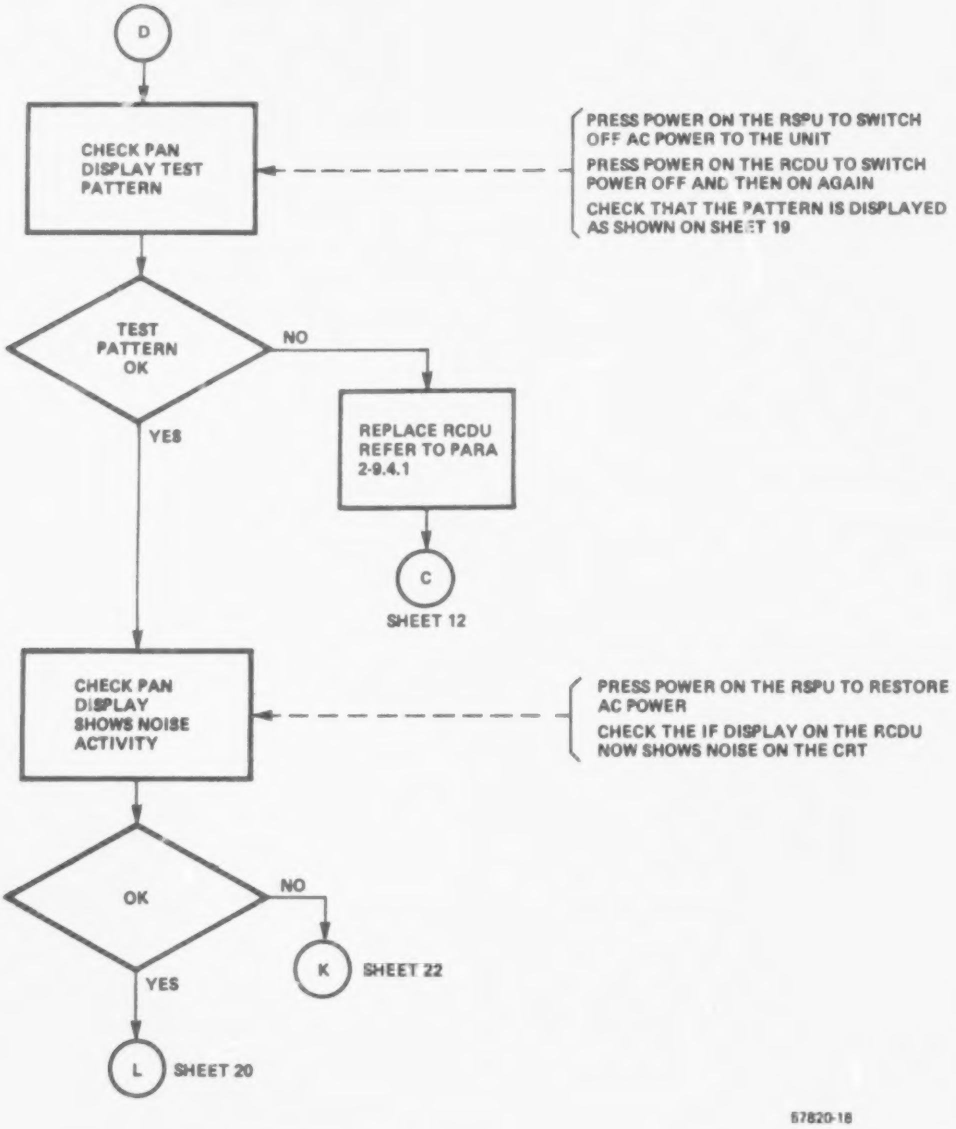

I
CHECK AUDIO INPUT TO RSPU
ACCESS RSPU REAR CONNECTORS
DISCONNECT CABLE W215 CONNECTED TO J20
MONITOR AUDIO FROM RCVR SET AT PINS P AND R OF P1
CHECK THAT AUDIO IS PRESENT WHEN TONE ON THE ARC-164 IS PRESSED
AUDIO INPUT OK
YES
NO
CHECK CONTINUITY OF CABLE W221
CHECK CONTINUITY OF CABLE W215
U
CABLE OK
NO
YES
REPLACE/REPAIR CABLE W221
REPLACE RSPU REFER TO PARA 4-6.3.5.
CABLE OK
NO
YES
REPLACE RCVR SET REFER TO PARA 4-6.3.3. AND 4-6.3.4
C
SHEET 12
REPLACE/REPAIR CABLE W215
57820-17

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 17 of 36)


D
CHECK PAN DISPLAY TEST PATTERN
TEST PATTERN OK
NO
YES
REPLACE RCDU REFER TO PARA 2-9.4.1
C
SHEET 12
CHECK PAN DISPLAY SHOWS NOISE ACTIVITY
OK
NO
YES
K
SHEET 22
L
SHEET 20
57820-18

PRESS POWER ON THE RSPU TO SWITCH OFF AC POWER TO THE UNIT

PRESS POWER ON THE RCDU TO SWITCH POWER OFF AND THEN ON AGAIN

CHECK THAT THE PATTERN IS DISPLAYED AS SHOWN ON SHEET 19

PRESS POWER ON THE RSPU TO RESTORE AC POWER

CHECK THE IF DISPLAY ON THE RCDU NOW SHOWS NOISE ON THE CRT

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 18 of 36)

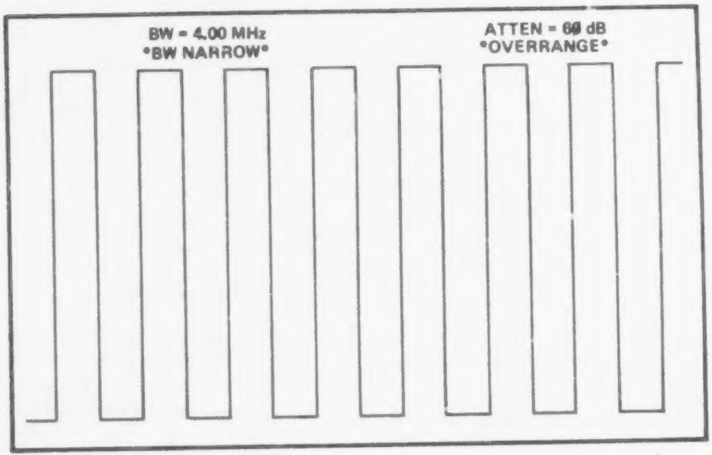
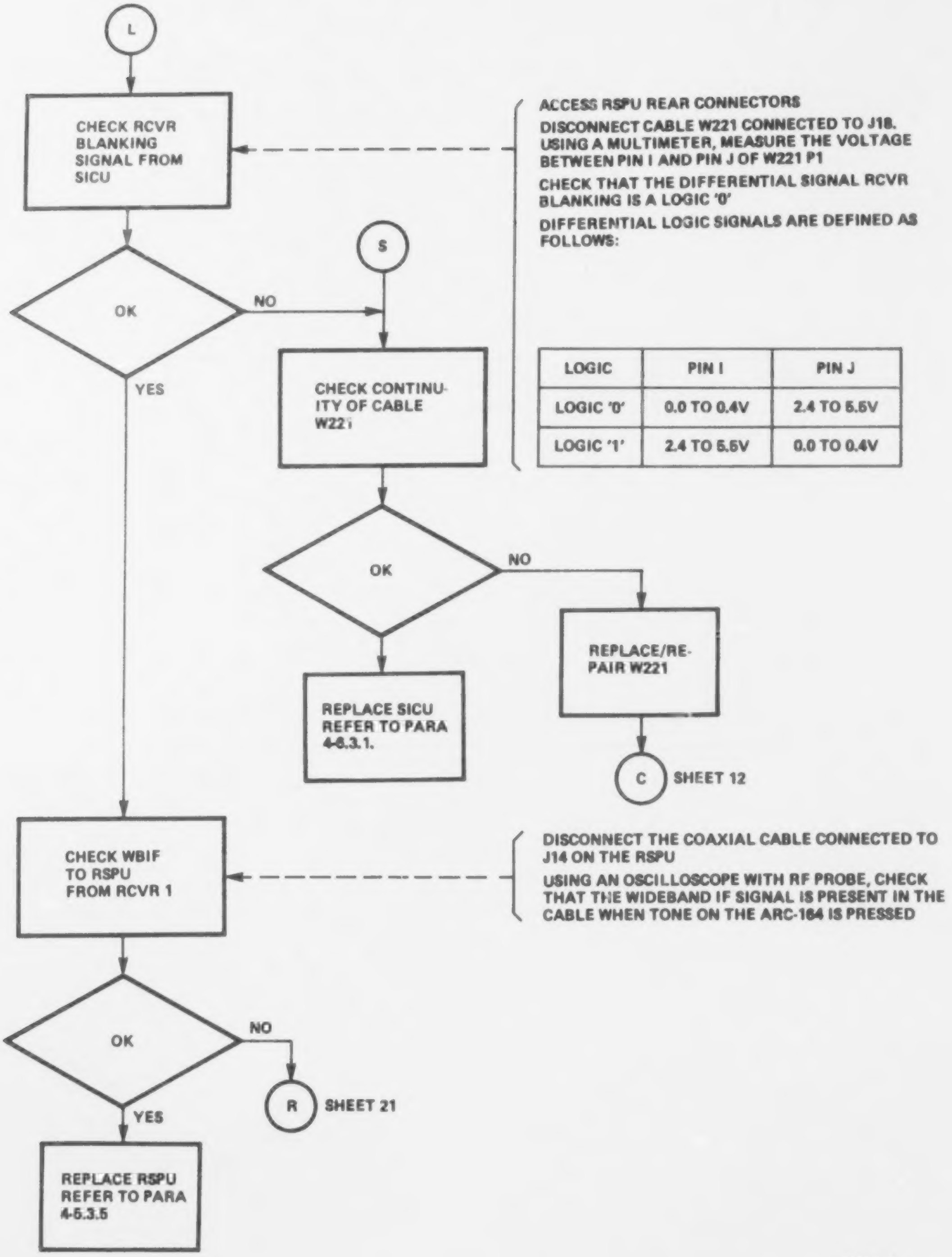


Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 19 of 36)


L
CHECK RCVR BLANKING SIGNAL FROM SICU
OK
NO
YES
S
CHECK CONTINUITY OF CABLE W221
OK
NO
REPLACE/REPAIR W221
C
SHEET 12
REPLACE SICU REFER TO PARA 4-6.3.1.
CHECK WBIF TO RSPU FROM RCVR 1
OK
NO
R
SHEET 21
YES
REPLACE RSPU REFER TO PARA 4-6.3.5

ACCESS RSPU REAR CONNECTORS

DISCONNECT CABLE W221 CONNECTED TO J18. USING A MULTIMETER, MEASURE THE VOLTAGE BETWEEN PIN I AND PIN J OF W221 P1

CHECK THAT THE DIFFERENTIAL SIGNAL RCVR BLANKING IS A LOGIC '0'

DIFFERENTIAL LOGIC SIGNALS ARE DEFINED AS FOLLOWS:

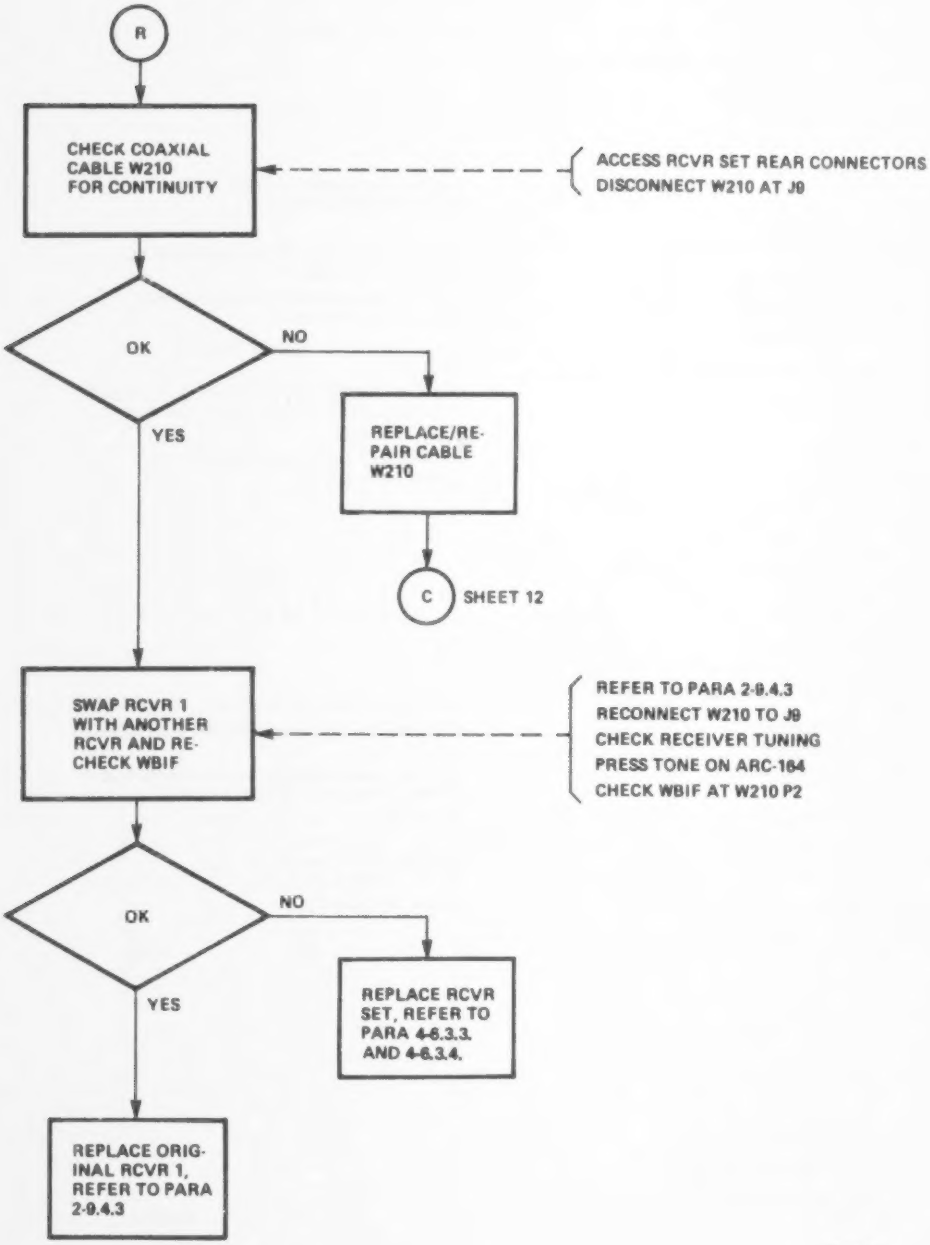
LOGIC	PIN I	PIN J
LOGIC '0'	0.0 TO 0.4V	2.4 TO 5.5V
LOGIC '1'	2.4 TO 5.5V	0.0 TO 0.4V

DISCONNECT THE COAXIAL CABLE CONNECTED TO J14 ON THE RSPU

USING AN OSCILLOSCOPE WITH RF PROBE, CHECK THAT THE WIDEBAND IF SIGNAL IS PRESENT IN THE CABLE WHEN TONE ON THE ARC-164 IS PRESSED

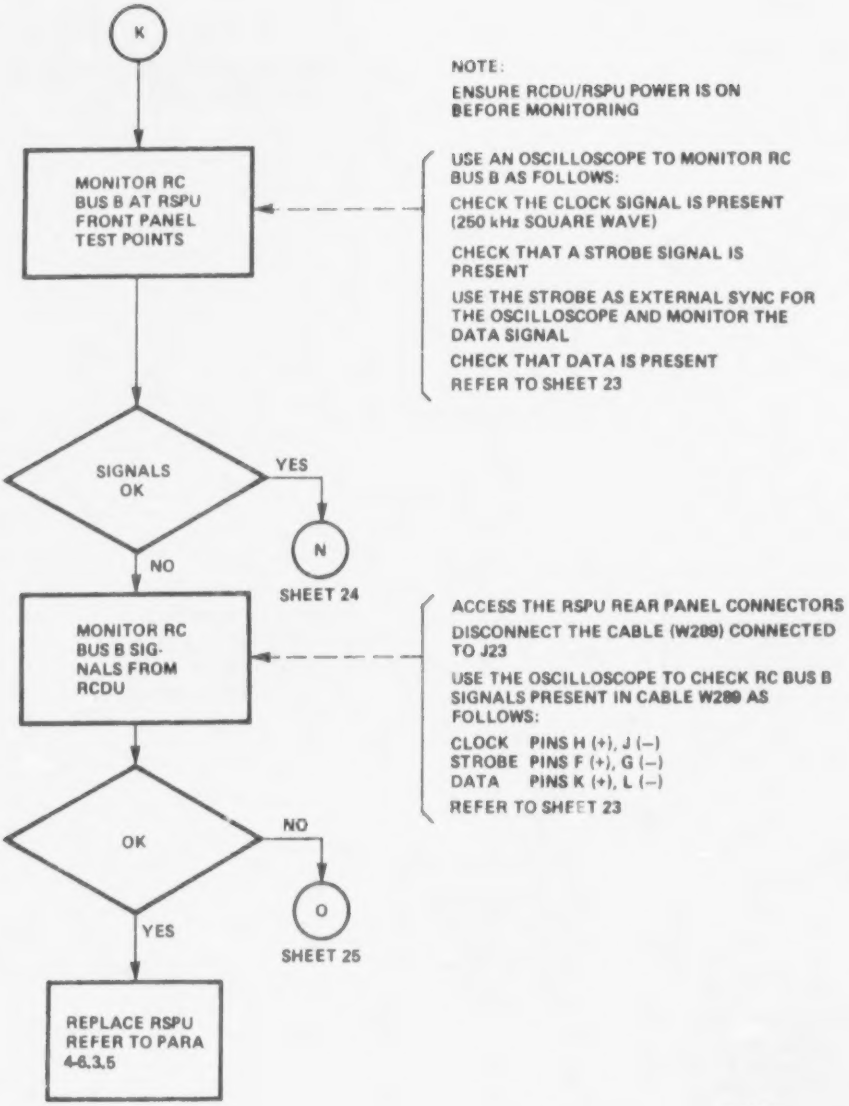
57820-20

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 20 of 36)


R
CHECK COAXIAL CABLE W210 FOR CONTINUITY
ACCESS RCVR SET REAR CONNECTORS
DISCONNECT W210 AT J9
OK
NO
YES
REPLACE/REPAIR CABLE W210
C
SHEET 12
SWAP RCVR 1 WITH ANOTHER RCVR AND RECHECK WBIF
REFER TO PARA 2-9.4.3
RECONNECT W210 TO J9
CHECK RECEIVER TUNING
PRESS TONE ON ARC-164
CHECK WBIF AT W210 P2
OK
NO
YES
REPLACE RCVR SET, REFER TO PARA 4-6.3.3. AND 4-6.3.4.
REPLACE ORIGINAL RCVR 1, REFER TO PARA 2-9.4.3

57820-21

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 21 of 36)


K
MONITOR RC BUS B AT RSPU FRONT PANEL TEST POINTS
SIGNALS OK
YES
N
SHEET 24
NO
MONITOR RC BUS B SIGNALS FROM RCDU
OK
NO
O
SHEET 25
YES
REPLACE RSPU REFER TO PARA 4-6.3.5
57820-22

NOTE:

ENSURE RCDU/RSPU POWER IS ON BEFORE MONITORING

USE AN OSCILLOSCOPE TO MONITOR RC BUS B AS FOLLOWS:

CHECK THE CLOCK SIGNAL IS PRESENT (250 kHz SQUARE WAVE)

CHECK THAT A STROBE SIGNAL IS PRESENT

USE THE STROBE AS EXTERNAL SYNC FOR THE OSCILLOSCOPE AND MONITOR THE DATA SIGNAL

CHECK THAT DATA IS PRESENT

REFER TO SHEET 23

ACCESS THE RSPU REAR PANEL CONNECTORS

DISCONNECT THE CABLE (W289) CONNECTED TO J23

USE THE OSCILLOSCOPE TO CHECK RC BUS B SIGNALS PRESENT IN CABLE W289 AS FOLLOWS:

CLOCK	PINS H (+), J (–)
STROBE	PINS F (+), G (–)
DATA	PINS K (+), L (–)

REFER TO SHEET 23

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 22 of 36)

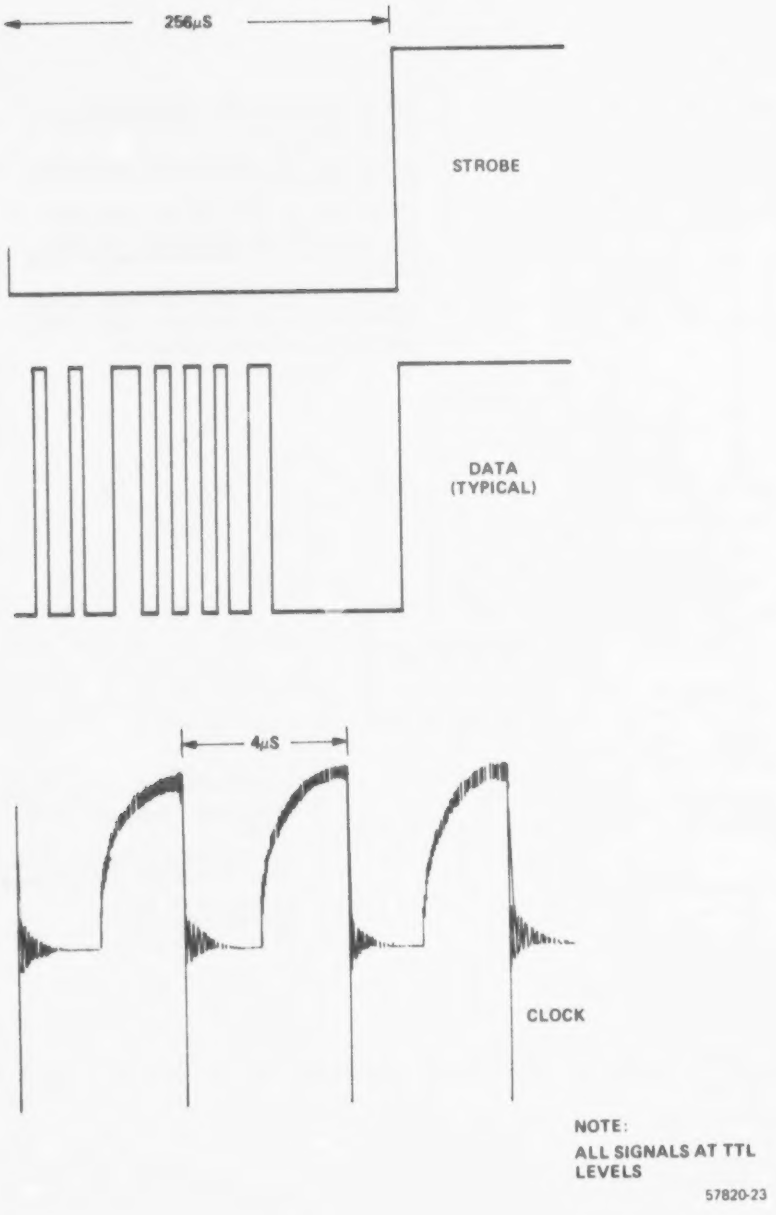
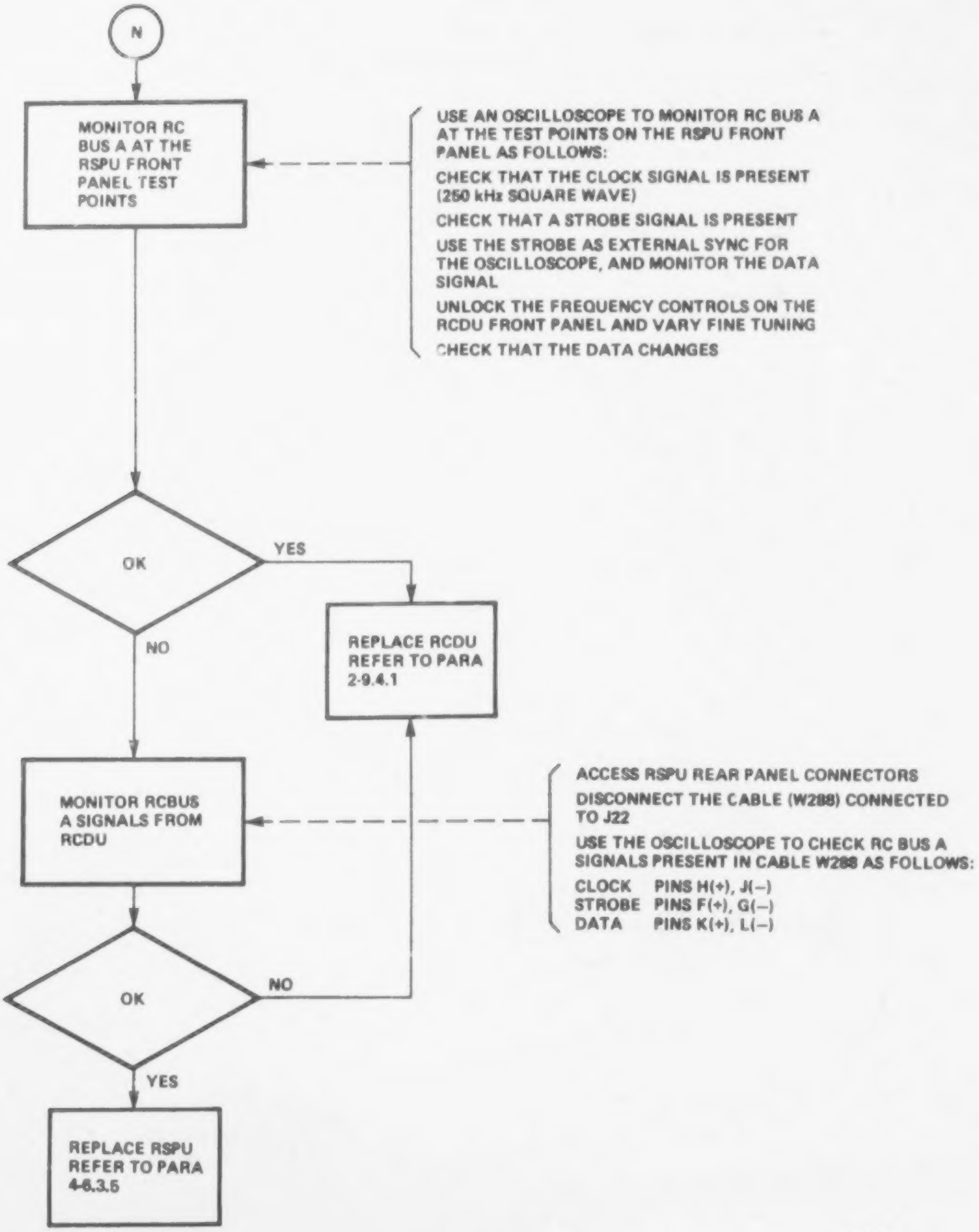


Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 23 of 36)


N
MONITOR RC BUS A AT THE RSPU FRONT PANEL TEST POINTS
OK
YES
NO
REPLACE RCDU REFER TO PARA 2-9.4.1
MONITOR RCBUS A SIGNALS FROM RCDU
OK
NO
YES
REPLACE RSPU REFER TO PARA 4-6.3.5
57820-24

USE AN OSCILLOSCOPE TO MONITOR RC BUS A AT THE TEST POINTS ON THE RSPU FRONT PANEL AS FOLLOWS:

CHECK THAT THE CLOCK SIGNAL IS PRESENT (250 kHz SQUARE WAVE)

CHECK THAT A STROBE SIGNAL IS PRESENT

USE THE STROBE AS EXTERNAL SYNC FOR THE OSCILLOSCOPE, AND MONITOR THE DATA SIGNAL

UNLOCK THE FREQUENCY CONTROLS ON THE RCDU FRONT PANEL AND VARY FINE TUNING

CHECK THAT THE DATA CHANGES

ACCESS RSPU REAR PANEL CONNECTORS

DISCONNECT THE CABLE (W288) CONNECTED TO J22

USE THE OSCILLOSCOPE TO CHECK RC BUS A SIGNALS PRESENT IN CABLE W288 AS FOLLOWS:

CLOCK	PINS H(+), J(−)
STROBE	PINS F(+), G(−)
DATA	PINS K(+), L(−)

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 24 of 36)

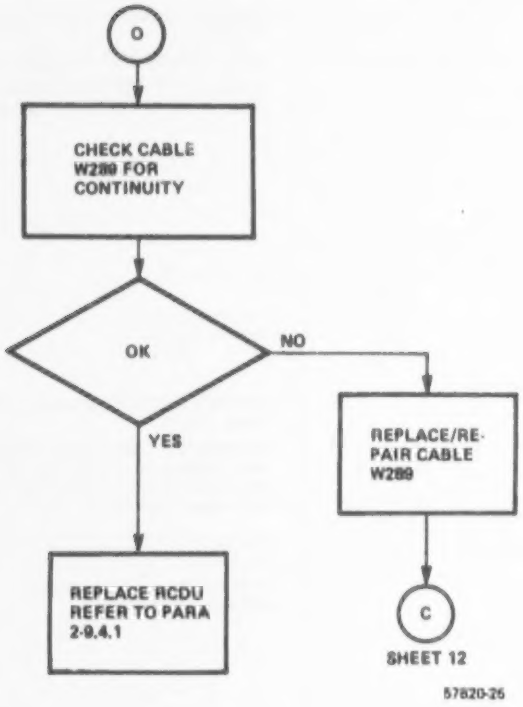
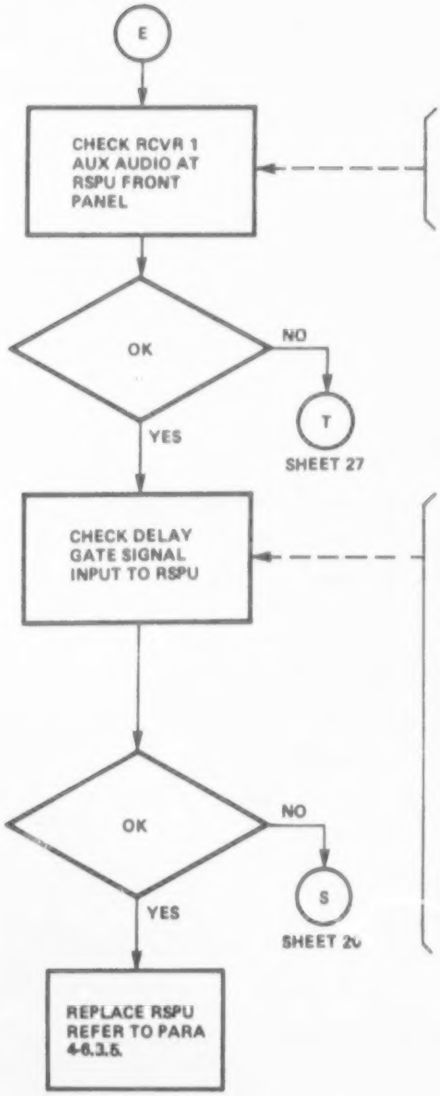

O
CHECK CABLE W289 FOR CONTINUITY
OK
NO
YES
REPLACE/RE-PAIR CABLE W289
REPLACE RCDU REFER TO PARA 2-9.4.1
C
SHEET 12
57820-26

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 25 of 36)


E
CHECK RCVR 1 AUX AUDIO AT RSPU FRONT PANEL
OK
NO
T
SHEET 27
YES
CHECK DELAY GATE SIGNAL INPUT TO RSPU
OK
NO
S
SHEET 2
YES
REPLACE RSPU REFER TO PARA 4-6.3.5.

CONNECT HEADSET JACK TO AUDIO MONITOR ON RSPU

SET AUDIO SELECT TO RCVR 1

CHECK THAT THE TONE SIGNAL CAN BE HEARD WHEN TONE ON THE ARC-164 IS PRESSED

ACCESS RSPU REAR CONNECTORS, REFER TO PARA 4-6.3.5.

DISCONNECT CABLE W221 CONNECTED TO J18. USING A MULTIMETER, MEASURE THE VOLTAGE BETWEEN PIN A AND PIN B OF W221 AND GROUND.

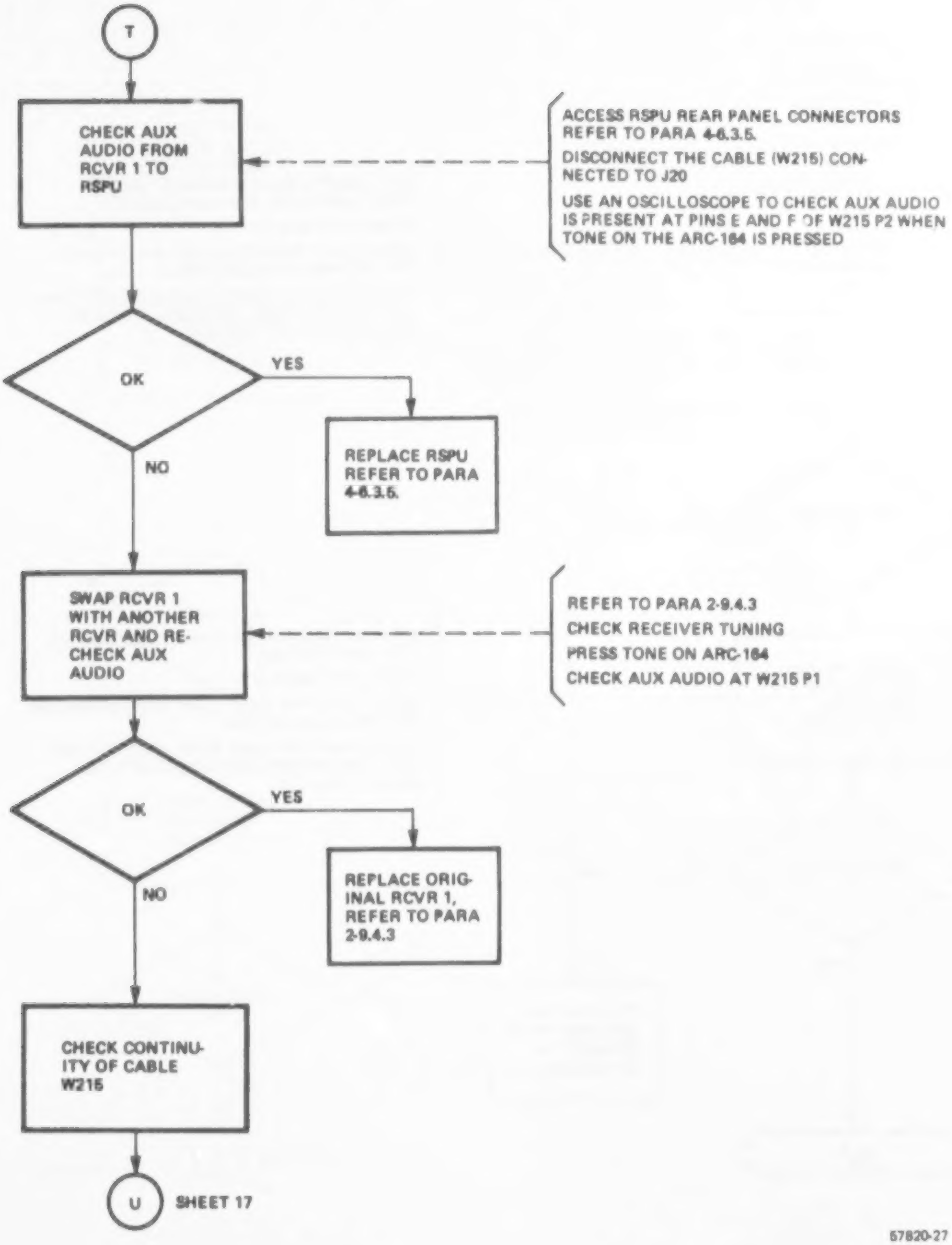
CHECK THAT THE DIFFERENTIAL SIGNAL DELAY GATE IS A LOGIC '0'

DIFFERENTIAL LOGIC SIGNALS ARE DEFINED AS FOLLOWS:

LOGIC	PIN A	PIN B
LOGIC '0'	0.0 TO 0.4V	2.4 TO 5.5V
LOGIC '1'	2.4 TO 5.5V	0.0 TO 0.4V

57920-26

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 26 of 36)


T
CHECK AUX AUDIO FROM RCVR 1 TO RSPU
OK
YES
NO
REPLACE RSPU REFER TO PARA 4-6.3.5.
SWAP RCVR 1 WITH ANOTHER RCVR AND RE-CHECK AUX AUDIO
OK
YES
NO
REPLACE ORIGINAL RCVR 1, REFER TO PARA 2-9.4.3
CHECK CONTINUITY OF CABLE W215
U
SHEET 17
57820-27

ACCESS RSPU REAR PANEL CONNECTORS REFER TO PARA 4-6.3.5.

DISCONNECT THE CABLE (W215) CONNECTED TO J20

USE AN OSCILLOSCOPE TO CHECK AUX AUDIO IS PRESENT AT PINS E AND F OF W215 P2 WHEN TONE ON THE ARC-164 IS PRESSED

REFER TO PARA 2-9.4.3

CHECK RECEIVER TUNING

PRESS TONE ON ARC-164

CHECK AUX AUDIO AT W215 P1

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 27 of 36)

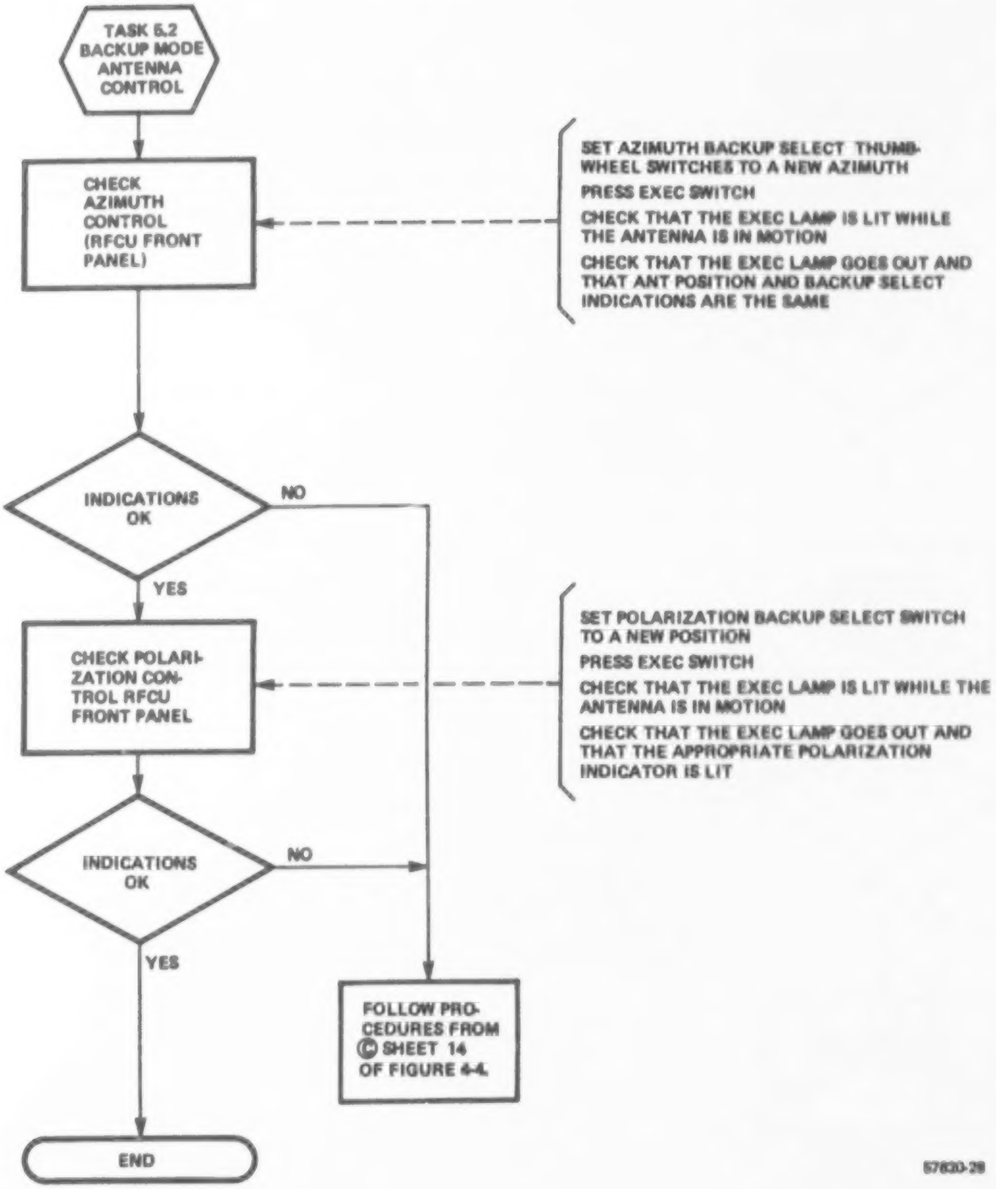
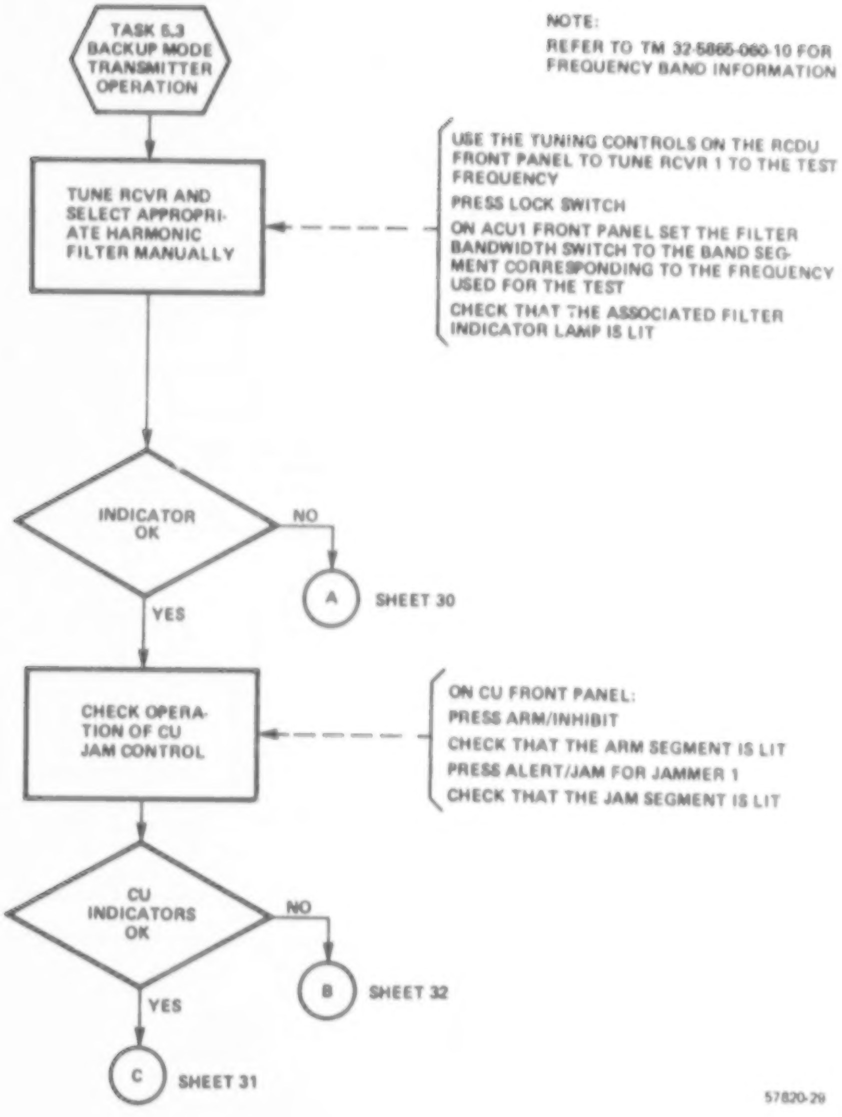

TASK 5.2 BACKUP MODE ANTENNA CONTROL
CHECK AZIMUTH CONTROL (RFCU FRONT PANEL)
SET AZIMUTH BACKUP SELECT THUMBWHEEL SWITCHES TO A NEW AZIMUTH
PRESS EXEC SWITCH
CHECK THAT THE EXEC LAMP IS LIT WHILE THE ANTENNA IS IN MOTION
CHECK THAT THE EXEC LAMP GOES OUT AND THAT ANT POSITION AND BACKUP SELECT INDICATIONS ARE THE SAME
INDICATIONS OK
NO
YES
CHECK POLARIZATION CONTROL RFCU FRONT PANEL
SET POLARIZATION BACKUP SELECT SWITCH TO A NEW POSITION
PRESS EXEC SWITCH
CHECK THAT THE EXEC LAMP IS LIT WHILE THE ANTENNA IS IN MOTION
CHECK THAT THE EXEC LAMP GOES OUT AND THAT THE APPROPRIATE POLARIZATION INDICATOR IS LIT
INDICATIONS OK
NO
YES
FOLLOW PROCEDURES FROM Ⓒ SHEET 14 OF FIGURE 4-4.
END
57820-28

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 28 of 36)


TASK 5.3 BACKUP MODE TRANSMITTER OPERATION
TUNE RCVR AND SELECT APPROPRIATE HARMONIC FILTER MANUALLY
INDICATOR OK
NO
YES
A
SHEET 30
CHECK OPERATION OF CU JAM CONTROL
CU INDICATORS OK
NO
YES
B
SHEET 32
C
SHEET 31
57820-29

NOTE:
REFER TO TM 32-5865-060-10 FOR FREQUENCY BAND INFORMATION

USE THE TUNING CONTROLS ON THE RCDU FRONT PANEL TO TUNE RCVR 1 TO THE TEST FREQUENCY

PRESS LOCK SWITCH

ON ACU1 FRONT PANEL SET THE FILTER BANDWIDTH SWITCH TO THE BAND SEGMENT CORRESPONDING TO THE FREQUENCY USED FOR THE TEST

CHECK THAT THE ASSOCIATED FILTER INDICATOR LAMP IS LIT

ON CU FRONT PANEL:

PRESS ARM/INHIBIT

CHECK THAT THE ARM SEGMENT IS LIT

PRESS ALERT/JAM FOR JAMMER 1

CHECK THAT THE JAM SEGMENT IS LIT

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 29 of 36)

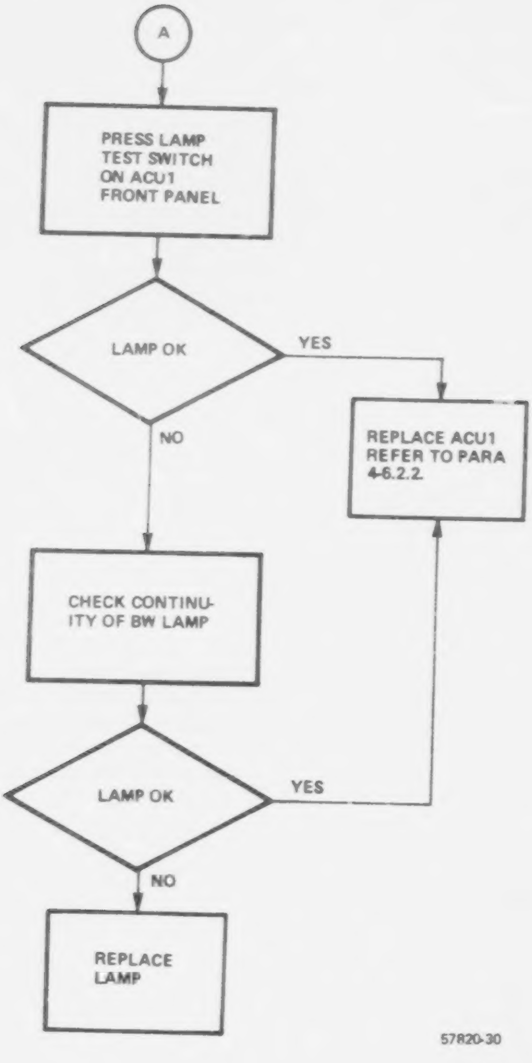

A
PRESS LAMP TEST SWITCH ON ACU1 FRONT PANEL
LAMP OK
YES
NO
REPLACE ACU1 REFER TO PARA 4-6.2.2.
CHECK CONTINUITY OF BW LAMP
LAMP OK
YES
NO
REPLACE LAMP
57820-30

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 30 of 36)

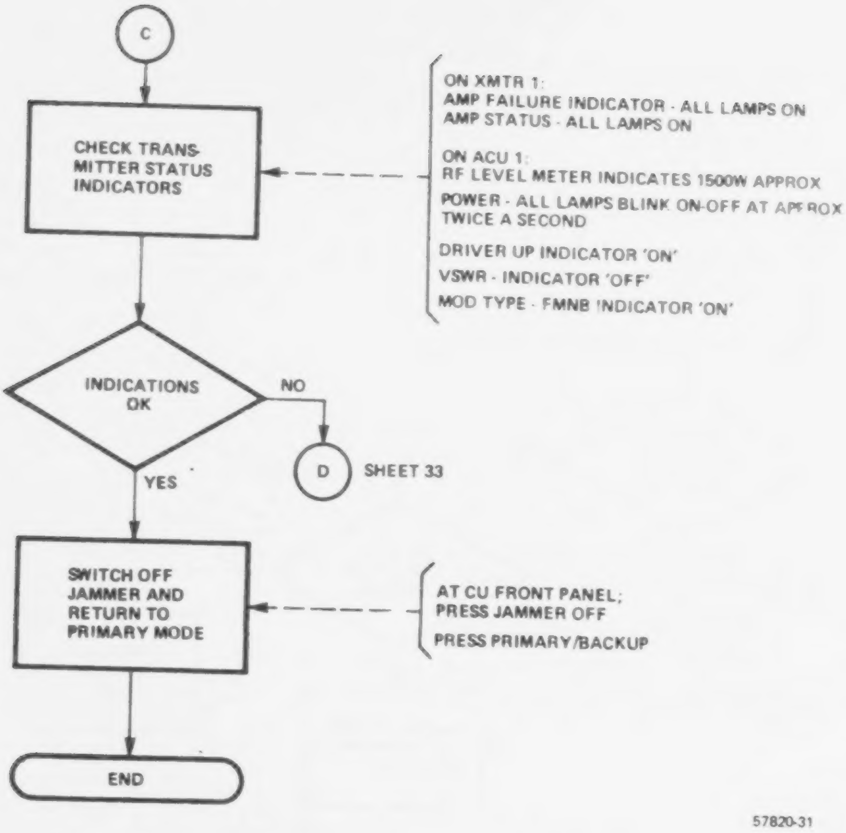

C
CHECK TRANSMITTER STATUS INDICATORS
ON XMTR 1:
AMP FAILURE INDICATOR - ALL LAMPS ON
AMP STATUS - ALL LAMPS ON
ON ACU 1:
RF LEVEL METER INDICATES 1500W APPROX
POWER - ALL LAMPS BLINK ON-OFF AT APPROX TWICE A SECOND
DRIVER UP INDICATOR 'ON'
VSWR - INDICATOR 'OFF'
MOD TYPE - FMNB INDICATOR 'ON'
INDICATIONS OK
NO
D
SHEET 33
YES
SWITCH OFF JAMMER AND RETURN TO PRIMARY MODE
AT CU FRONT PANEL;
PRESS JAMMER OFF
PRESS PRIMARY/BACKUP
END
57820-31

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 31 of 36)

best copy available

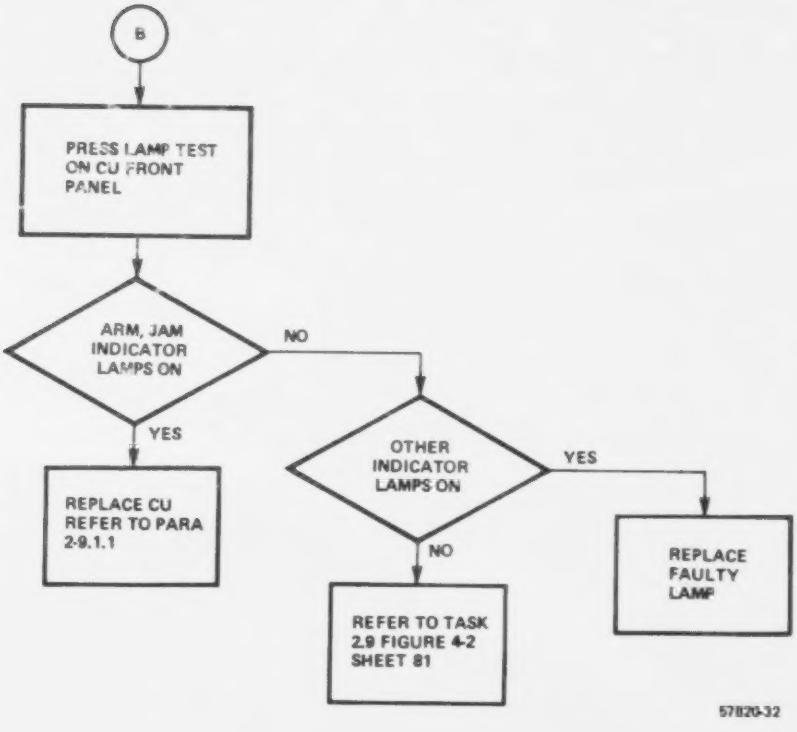
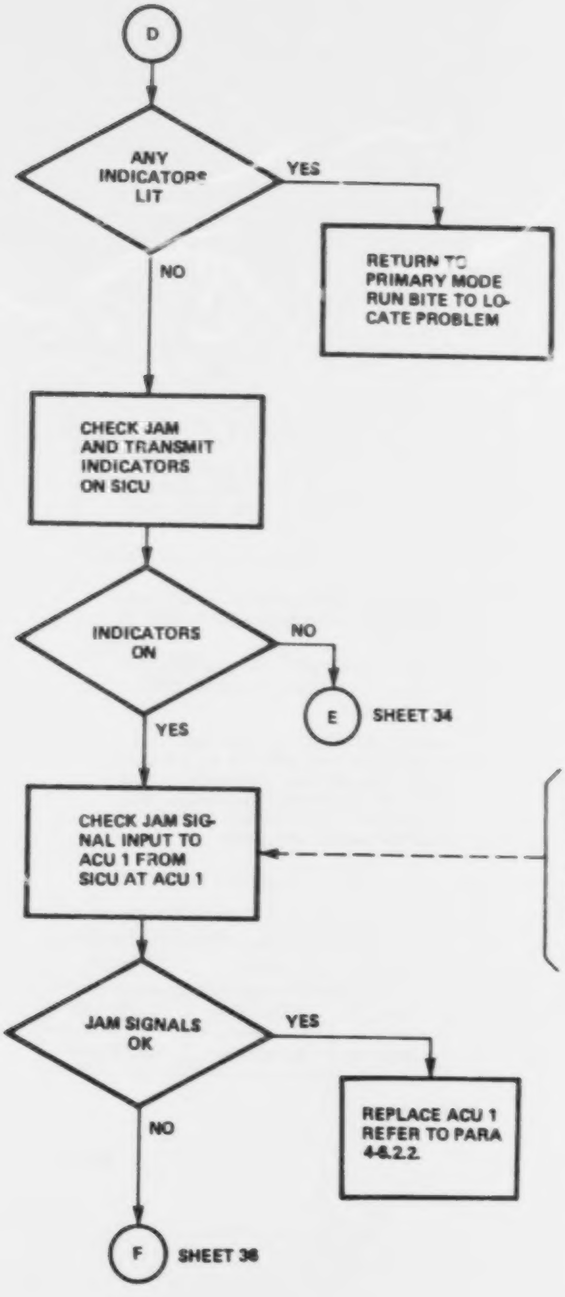

B
PRESS LAMP TEST ON CU FRONT PANEL
ARM, JAM INDICATOR LAMPS ON
NO
YES
REPLACE CU REFER TO PARA 2-9.1.1
OTHER INDICATOR LAMPS ON
YES
NO
REFER TO TASK 2.9 FIGURE 4-2 SHEET 81
REPLACE FAULTY LAMP
57820-32

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 32 of 36)


D
ANY INDICATORS LIT
YES
RETURN TO PRIMARY MODE RUN BITE TO LOCATE PROBLEM
NO
CHECK JAM AND TRANSMIT INDICATORS ON SICU
INDICATORS ON
NO
E
SHEET 34
YES
CHECK JAM SIGNAL INPUT TO ACU 1 FROM SICU AT ACU 1
JAM SIGNALS OK
YES
REPLACE ACU 1 REFER TO PARA 4-6.2.2.
NO
F
SHEET 36

ACCESS ACU 1 REAR PANEL CONNECTORS

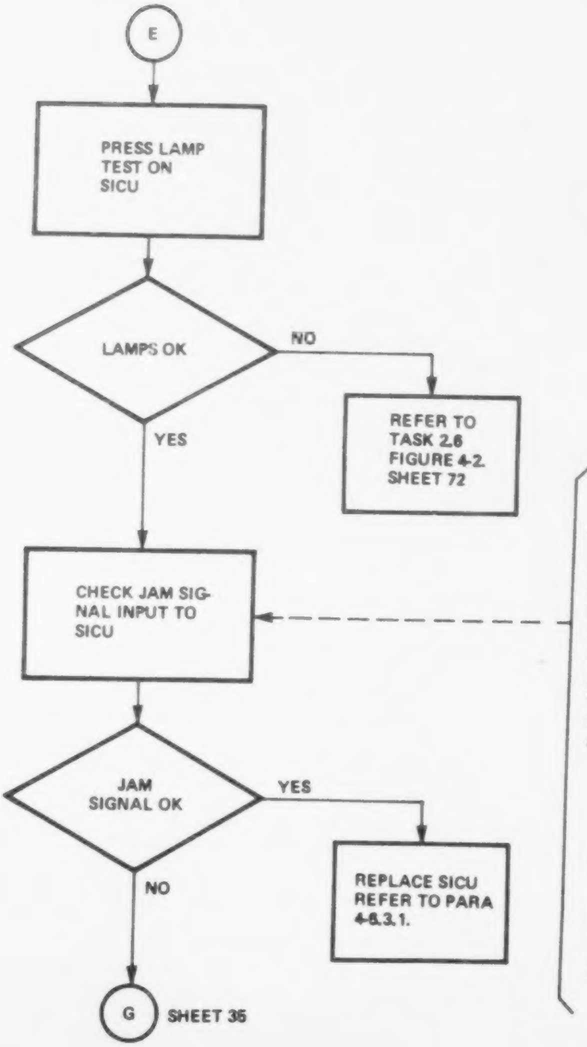
DISCONNECT THE CABLE (W160) CONNECTED TO J8

USE A MULTIMETER TO MEASURE THE VOLTAGE BETWEEN PINS P AND R OF W160 (P2) AND GROUND. CHECK THAT THE DIFFERENTIAL SIGNAL JAM IS A LOGIC '1'. DIFFERENTIAL LOGIC SIGNALS ARE DEFINED AS FOLLOWS:

LOGIC	PIN P	PIN R
LOGIC '0'	0.0 TO 0.4V	2.4 TO 5.5V
LOGIC '1'	2.4 TO 5.5V	0.0 TO 0.4V

57820-33

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 33 of 36)


E
PRESS LAMP TEST ON SICU
LAMPS OK
NO
REFER TO TASK 2.6 FIGURE 4-2. SHEET 72
YES
CHECK JAM SIGNAL INPUT TO SICU
JAM SIGNAL OK
YES
REPLACE SICU REFER TO PARA 4-6.3.1.
NO
G
SHEET 35

RECONNECT CABLE W160 TO J8 ON ACU 1 REAR PANEL, AND SECURE THE UNIT IN THE RACK

ACCESS SICU REAR PANEL CONNECTORS

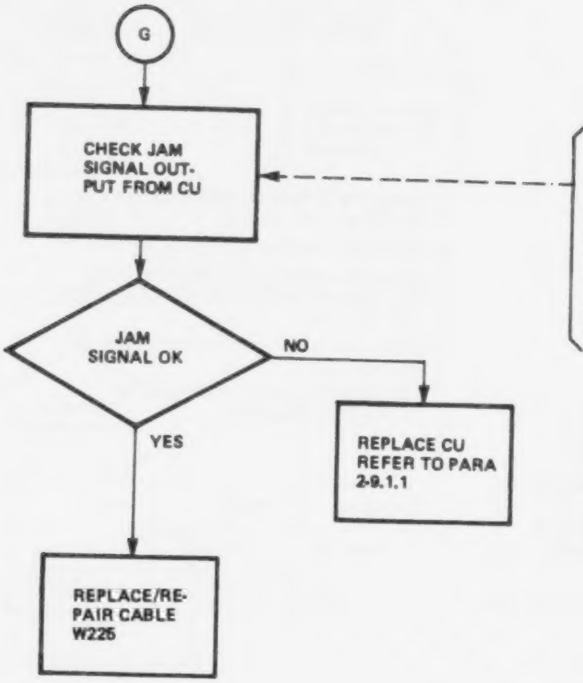
DISCONNECT THE CABLE (W225) CONNECTED TO J11

USING A MULTIMETER, MEASURE THE VOLTAGE BETWEEN PIN Z AND PIN a OF CABLE W225 (P2) AND GROUND. CHECK THAT THE DIFFERENTIAL SIGNAL JAM IS A LOGIC '1'. DIFFERENTIAL SIGNALS ARE DEFINED AS FOLLOWS:

LOGIC	PIN Z	PIN a
LOGIC '0'	0.0 TO 0.4V	2.4 TO 5.5V
LOGIC '1'	2.4 TO 5.5V	0.0 TO 0.4V

57820-34

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 34 of 36)


G
CHECK JAM SIGNAL OUTPUT FROM CU
JAM SIGNAL OK
NO
YES
REPLACE CU REFER TO PARA 2-9.1.1
REPLACE/REPAIR CABLE W225

ACCESS THE CU REAR PANEL CONNECTORS

DISCONNECT THE CABLE (W225) CONNECTED TO J4 ON THE CU REAR PANEL

USING A MULTIMETER, MEASURE THE VOLTAGE BETWEEN PINS Z AND PIN a OF J4 AND GROUND

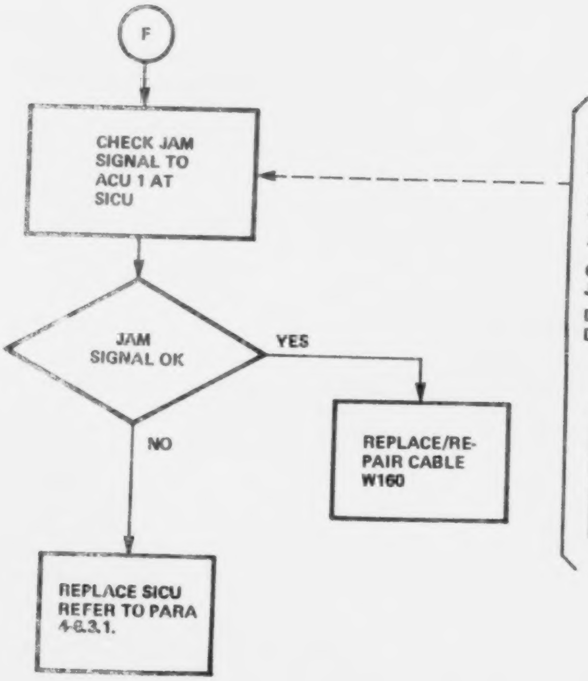
CHECK THAT THE DIFFERENTIAL SIGNAL JAM IS A LOGIC '1'

DIFFERENTIAL LOGIC SIGNALS ARE DEFINED AS FOLLOWS:

LOGIC	PIN Z	PIN a
LOGIC '0'	0.0 TO 0.4V	2.4 TO 5.5V
LOGIC '1'	2.4 TO 5.5V	0.0 TO 0.4V

57820-35

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 35 of 36)


F
CHECK JAM SIGNAL TO ACU 1 AT SICU
JAM SIGNAL OK
YES
NO
REPLACE/REPAIR CABLE W160
REPLACE SICU REFER TO PARA 4-6.3.1.

ACCESS SICU REAR PANEL CONNECTORS, REFER TO PARA 4-6.3.1.

DISCONNECT CABLE CONNECTED TO J12

USE A MULTIMETER TO MEASURE THE VOLTAGE BETWEEN PINS P AND R OF J12 AND GROUND

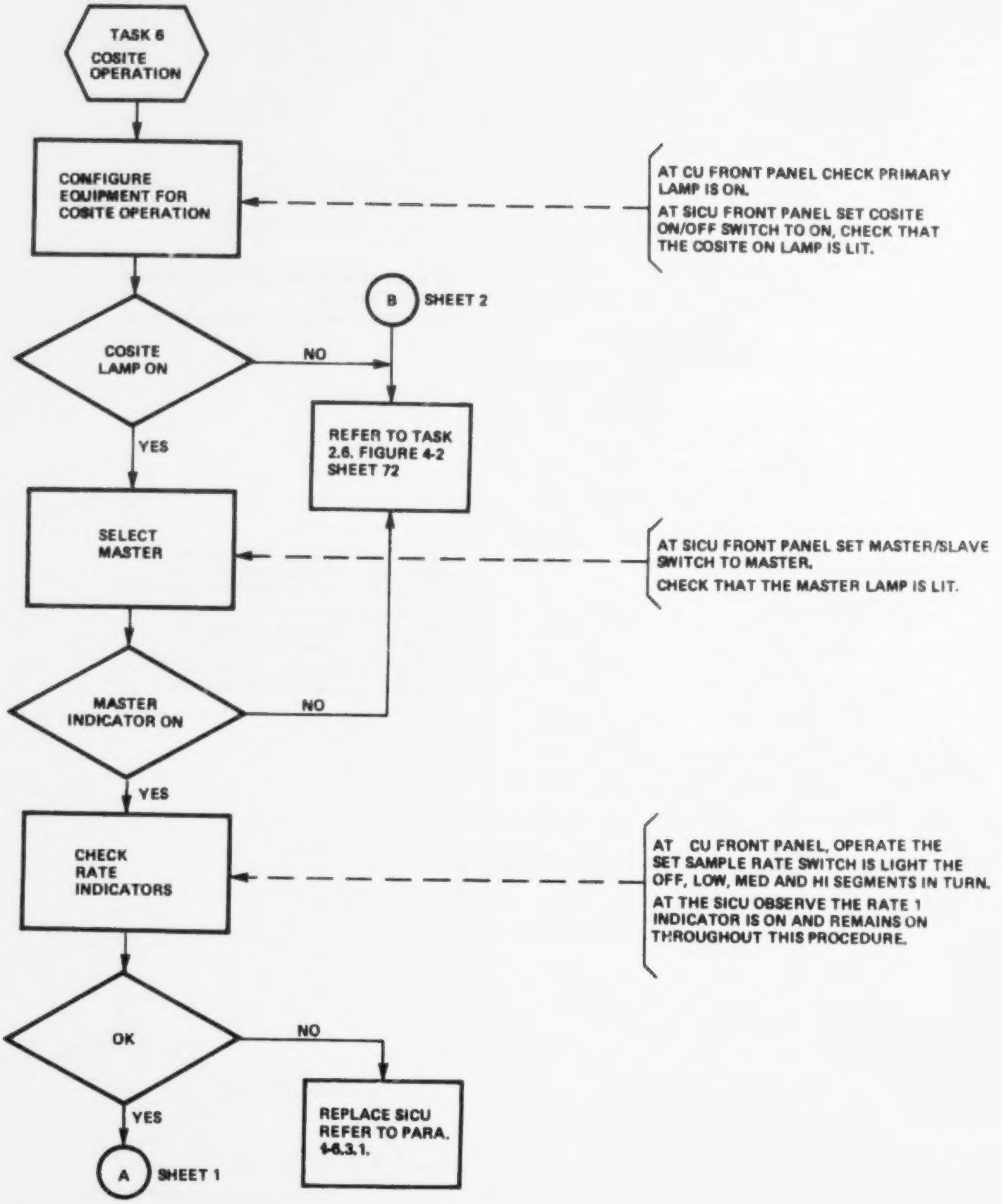
CHECK THAT THE DIFFERENTIAL SIGNAL JAM IS A LOGIC '1'

DIFFERENTIAL LOGIC SIGNALS ARE DEFINED AS FOLLOWS:

LOGIC	PIN P	PIN R
LOGIC '0'	0.0 TO 0.4V	2.4 TO 5.5V
LOGIC '1'	2.5 TO 5.5V	0.0 TO 0.4V

57820-36

Figure 4-5. System Troubleshooting FLFC, Task 5 (Sheet 36 of 36)



AT CU FRONT PANEL CHECK PRIMARY LAMP IS ON.

AT SICU FRONT PANEL SET COSITE ON/OFF SWITCH TO ON, CHECK THAT THE COSITE ON LAMP IS LIT.

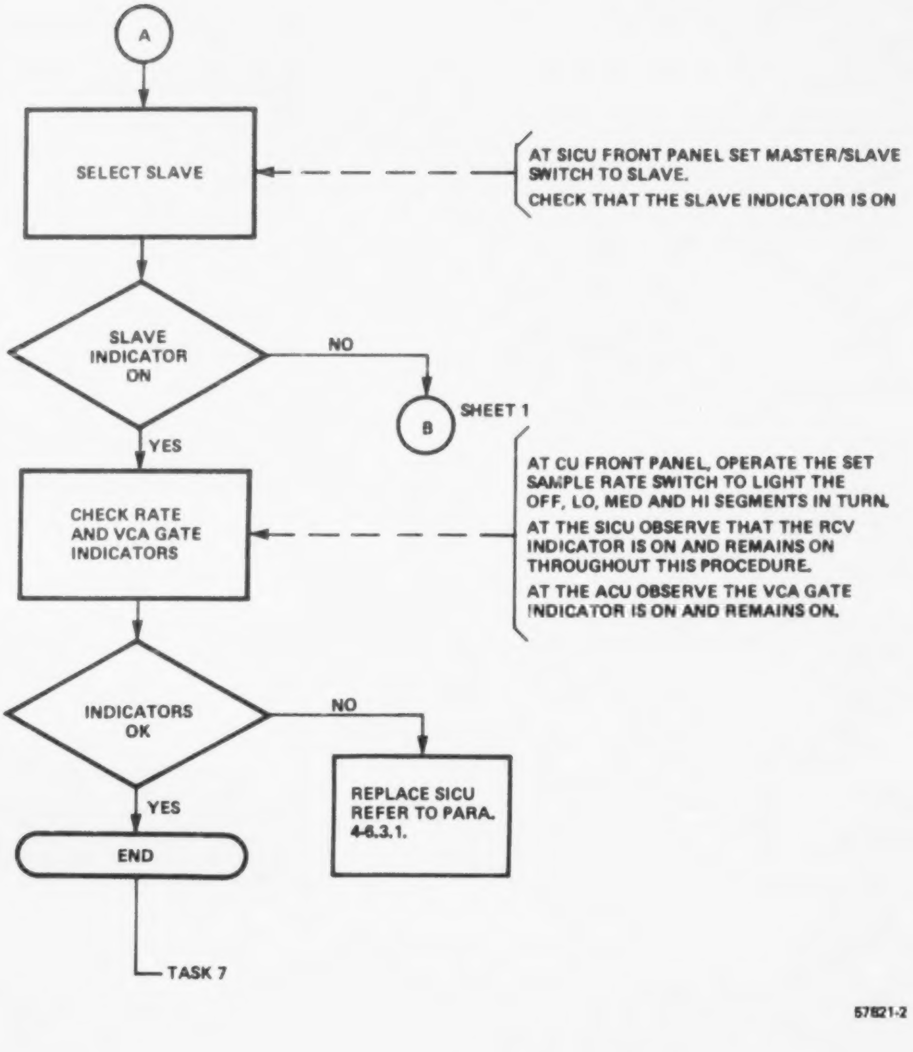
AT SICU FRONT PANEL SET MASTER/SLAVE SWITCH TO MASTER.

CHECK THAT THE MASTER LAMP IS LIT.

AT CU FRONT PANEL, OPERATE THE SET SAMPLE RATE SWITCH IS LIGHT THE OFF, LOW, MED AND HI SEGMENTS IN TURN.

AT THE SICU OBSERVE THE RATE 1 INDICATOR IS ON AND REMAINS ON THROUGHOUT THIS PROCEDURE.

Figure 4-6. System Troubleshooting FLFC, Task 6 (Sheet 1 of 2)



AT SICU FRONT PANEL SET MASTER/SLAVE SWITCH TO SLAVE.

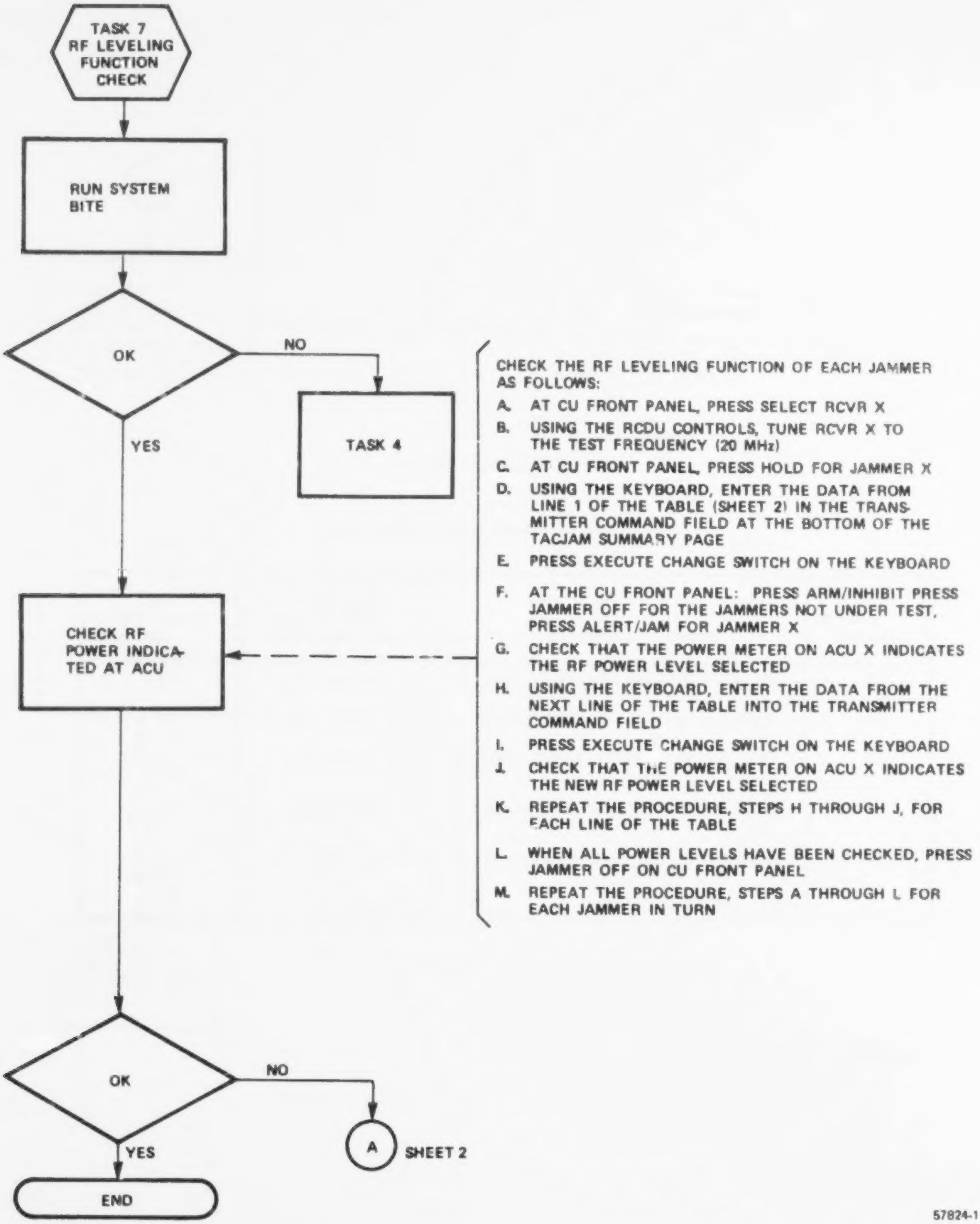
CHECK THAT THE SLAVE INDICATOR IS ON

AT CU FRONT PANEL, OPERATE THE SET SAMPLE RATE SWITCH TO LIGHT THE OFF, LO, MED AND HI SEGMENTS IN TURN.

AT THE SICU OBSERVE THAT THE RCV INDICATOR IS ON AND REMAINS ON THROUGHOUT THIS PROCEDURE.

AT THE ACU OBSERVE THE VCA GATE INDICATOR IS ON AND REMAINS ON.

Figure 4-6. System Troubleshooting FLFC, Task 6 (Sheet 2 of 2)



CHECK THE RF LEVELING FUNCTION OF EACH JAMMER AS FOLLOWS:

A. AT CU FRONT PANEL, PRESS SELECT RCVR X

B. USING THE RCDU CONTROLS, TUNE RCVR X TO THE TEST FREQUENCY (20 MHz)

C. AT CU FRONT PANEL, PRESS HOLD FOR JAMMER X

D. USING THE KEYBOARD, ENTER THE DATA FROM LINE 1 OF THE TABLE (SHEET 2) IN THE TRANSMITTER COMMAND FIELD AT THE BOTTOM OF THE TACJAM SUMMARY PAGE

E. PRESS EXECUTE CHANGE SWITCH ON THE KEYBOARD

F. AT THE CU FRONT PANEL: PRESS ARM/INHIBIT PRESS JAMMER OFF FOR THE JAMMERS NOT UNDER TEST, PRESS ALERT/JAM FOR JAMMER X

G. CHECK THAT THE POWER METER ON ACU X INDICATES THE RF POWER LEVEL SELECTED

H. USING THE KEYBOARD, ENTER THE DATA FROM THE NEXT LINE OF THE TABLE INTO THE TRANSMITTER COMMAND FIELD

I. PRESS EXECUTE CHANGE SWITCH ON THE KEYBOARD

J. CHECK THAT THE POWER METER ON ACU X INDICATES THE NEW RF POWER LEVEL SELECTED

K. REPEAT THE PROCEDURE, STEPS H THROUGH J, FOR EACH LINE OF THE TABLE

L. WHEN ALL POWER LEVELS HAVE BEEN CHECKED, PRESS JAMMER OFF ON CU FRONT PANEL

M. REPEAT THE PROCEDURE, STEPS A THROUGH L FOR EACH JAMMER IN TURN

Figure 4-7. System Troubleshooting FLFC, Task 7 (Sheet 1 of 3)

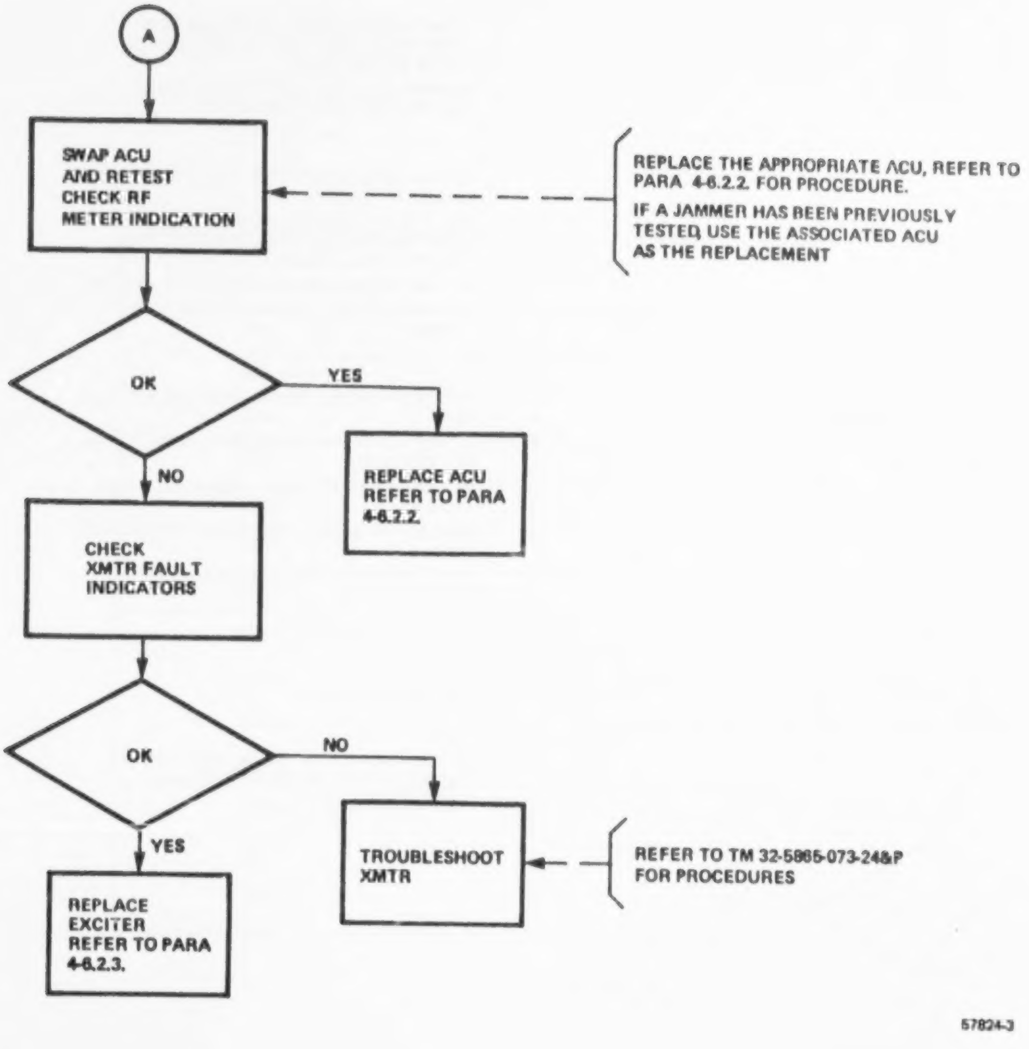
RF POWER LEVELS TESTING

NOTE
REFER TO TM 32-5865-060-10 FOR P1 AND FMNB1

LINE NUMBER	SUMMARY PAGE DATA	EXPECTED POWER LEVEL (ACU PWR METER)	ACU INDICATORS ON
1	XMTR X, MOD FMNB, DEV FMNB1, P/SEL -12	P1/32 W ± 10%	-12
2	XMTR X, MOD FMNB, DEV FMNB1, P/SEL - 9	P1/16 W ± 10%	-12, -9
3	XMTR X, MOD FMNB, DEV FMNB1, P/SEL - 6	P1/4 W ± 10%	-12, -9 -6,
4	XMTR X, MOD FMNB, DEV FMNB1, P/SEL - 3	P1/2 W ± 10%	-12, -9 -6, -3
5	XMTR X, MOD FMNB, DEV FMNB1, P/SEL - 0	P1 W ± 10%	-12, -9, -6,-3,0

57824-2

Figure 4-7. System Troubleshooting FLFC, Task 7 (Sheet 2 of 3)

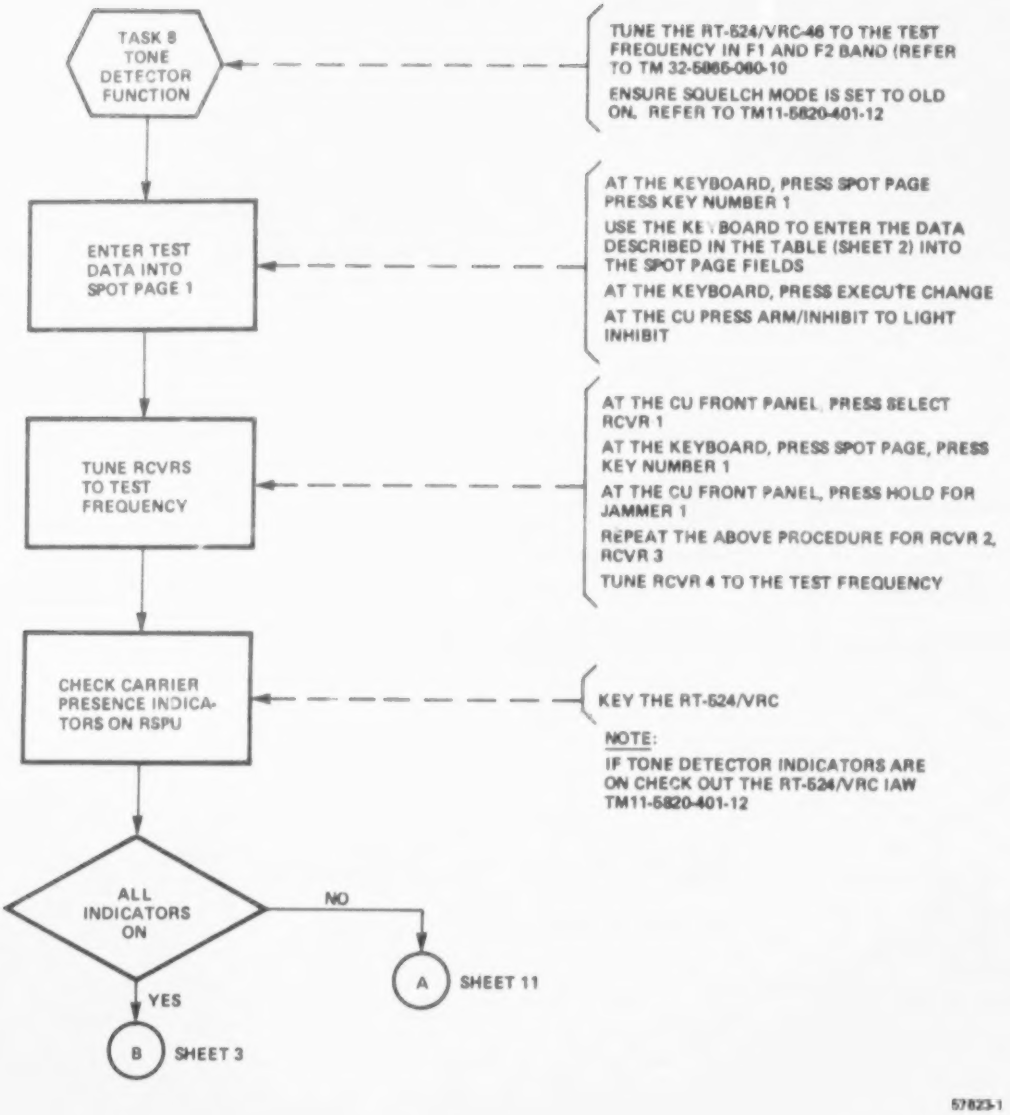

A
SWAP ACU AND RETEST CHECK RF METER INDICATION
OK
YES
NO
REPLACE ACU REFER TO PARA 4-6.2.2.
CHECK XMTR FAULT INDICATORS
OK
NO
YES
TROUBLESHOOT XMTR
REPLACE EXCITER REFER TO PARA 4-6.2.3.
57824-3

REPLACE THE APPROPRIATE ACU, REFER TO PARA 4-6.2.2. FOR PROCEDURE.

IF A JAMMER HAS BEEN PREVIOUSLY TESTED, USE THE ASSOCIATED ACU AS THE REPLACEMENT

REFER TO TM 32-5865-073-24&P FOR PROCEDURES

Figure 4-7. System Troubleshooting FLFC, Task 7 (Sheet 3 of 3)


TASK 8 TONE DETECTOR FUNCTION
ENTER TEST DATA INTO SPOT PAGE 1
TUNE RCVRS TO TEST FREQUENCY
CHECK CARRIER PRESENCE INDICATORS ON RSPU
ALL INDICATORS ON
NO
A
SHEET 11
YES
B
SHEET 3
57823-1

TUNE THE RT-524/VRC-46 TO THE TEST FREQUENCY IN F1 AND F2 BAND (REFER TO TM 32-5865-060-10

ENSURE SQUELCH MODE IS SET TO OLD ON. REFER TO TM11-5820-401-12

AT THE KEYBOARD, PRESS SPOT PAGE PRESS KEY NUMBER 1

USE THE KEYBOARD TO ENTER THE DATA DESCRIBED IN THE TABLE (SHEET 2) INTO THE SPOT PAGE FIELDS

AT THE KEYBOARD, PRESS EXECUTE CHANGE

AT THE CU PRESS ARM/INHIBIT TO LIGHT INHIBIT

AT THE CU FRONT PANEL, PRESS SELECT RCVR 1

AT THE KEYBOARD, PRESS SPOT PAGE, PRESS KEY NUMBER 1

AT THE CU FRONT PANEL, PRESS HOLD FOR JAMMER 1

REPEAT THE ABOVE PROCEDURE FOR RCVR 2, RCVR 3

TUNE RCVR 4 TO THE TEST FREQUENCY

KEY THE RT-524/VRC

NOTE:

IF TONE DETECTOR INDICATORS ARE ON CHECK OUT THE RT-524/VRC IAW TM11-5820-401-12

Figure 4-8. System Troubleshooting FLFC, Task 8 (Sheet 1 of 12)

SPOT-PAGE FIELD	DATA
FREQ - MHz	TEST FREQUENCY
ANTENNA	
AZ/P	OOOH
RECEIVER	
MOD	FM
BW	50K
SEN	LO
TRANSMITTER	
MOD	FMWB1
DEV	REFER TO TM 32-5865-060-10
P/SEL	-12
JAMMING INSTRUCTIONS	
SIJ	YES
IFF	1

57823-2

Figure 4-8. System Troubleshooting FLFC, Task 8 (Sheet 2 of 12)

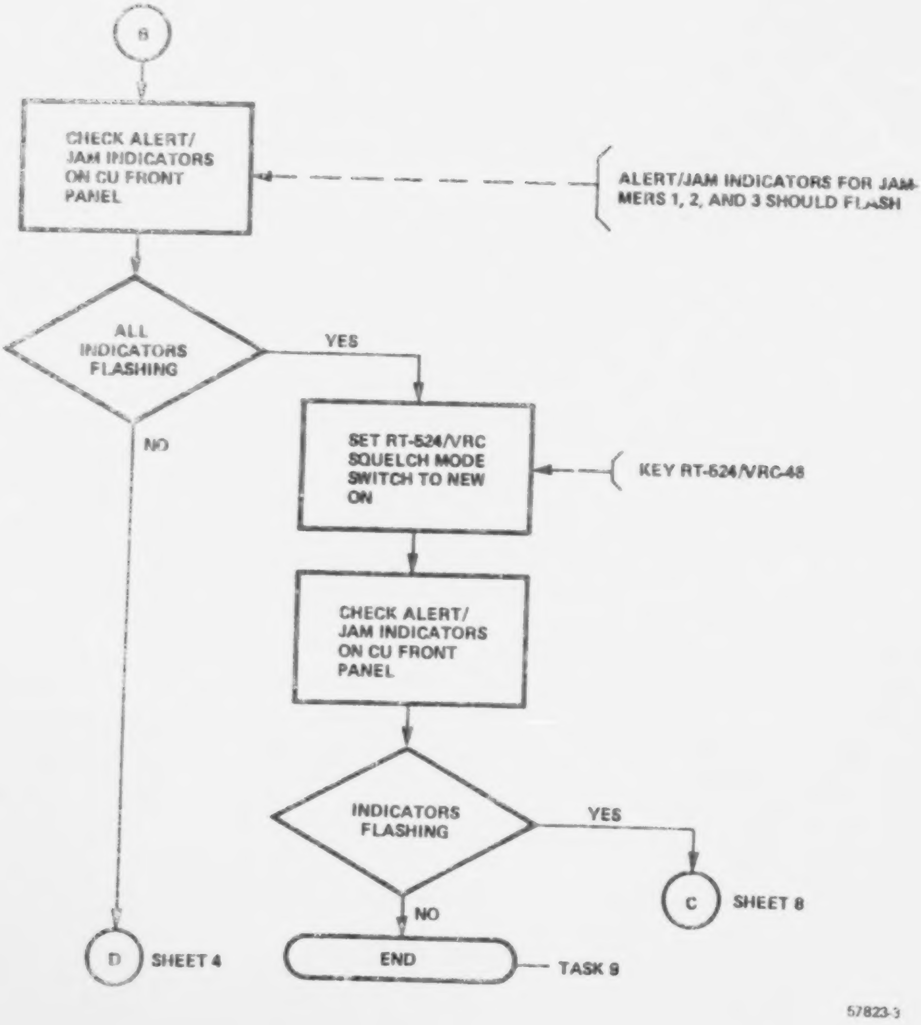

B
CHECK ALERT/ JAM INDICATORS ON CU FRONT PANEL
ALERT/JAM INDICATORS FOR JAMMERS 1, 2, AND 3 SHOULD FLASH
ALL INDICATORS FLASHING
YES
NO
SET RT-524/VRC SQUELCH MODE SWITCH TO NEW ON
KEY RT-524/VRC-46
CHECK ALERT/ JAM INDICATORS ON CU FRONT PANEL
INDICATORS FLASHING
YES
NO
C
SHEET 8
D
SHEET 4
END
TASK 9
57823-3

Figure 4-8. System Troubleshooting FLFC, Task 8 (Sheet 3 of 12)

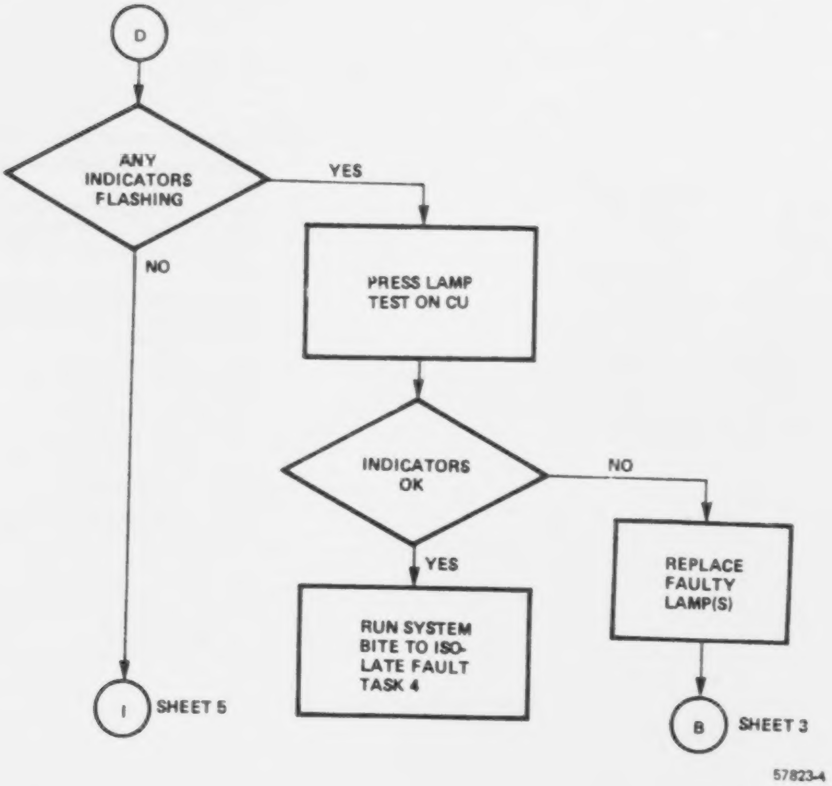
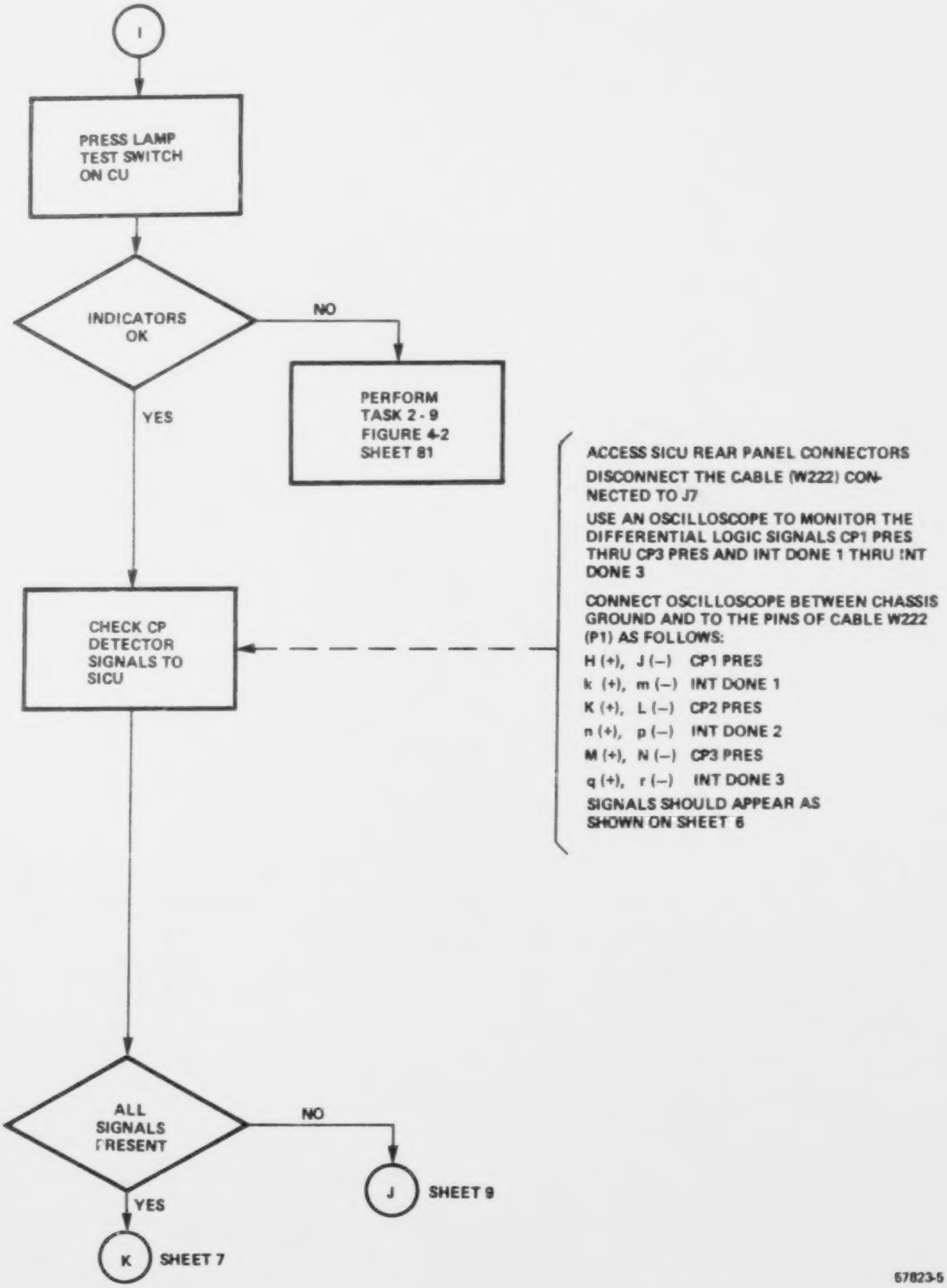


Figure 4-8. System Troubleshooting FLFC, Task 8 (Sheet 4 of 12)


I
PRESS LAMP TEST SWITCH ON CU
INDICATORS OK
NO
YES
PERFORM TASK 2 - 9 FIGURE 4-2 SHEET 81
CHECK CP DETECTOR SIGNALS TO SICU
ALL SIGNALS PRESENT
NO
YES
J
SHEET 9
K
SHEET 7
67823-5

ACCESS SICU REAR PANEL CONNECTORS

DISCONNECT THE CABLE (W222) CONNECTED TO J7

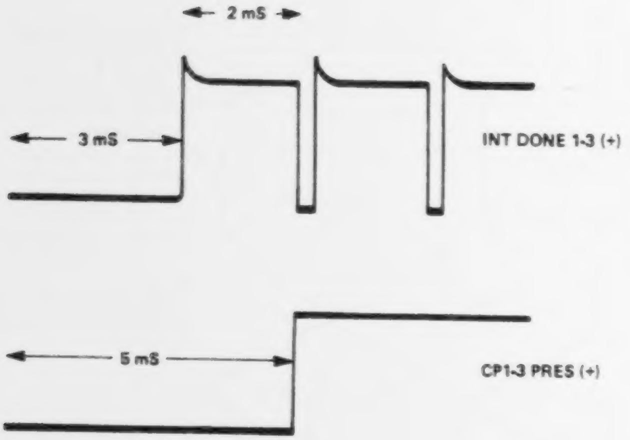
USE AN OSCILLOSCOPE TO MONITOR THE DIFFERENTIAL LOGIC SIGNALS CP1 PRES THRU CP3 PRES AND INT DONE 1 THRU INT DONE 3

CONNECT OSCILLOSCOPE BETWEEN CHASSIS GROUND AND TO THE PINS OF CABLE W222 (P1) AS FOLLOWS:

H (+), J (–) CP1 PRES
k (+), m (–) INT DONE 1
K (+), L (–) CP2 PRES
n (+), p (–) INT DONE 2
M (+), N (–) CP3 PRES
q (+), r (–) INT DONE 3

SIGNALS SHOULD APPEAR AS SHOWN ON SHEET 6

Figure 4-8. System Troubleshooting FLFC, Task 8 (Sheet 5 of 12)



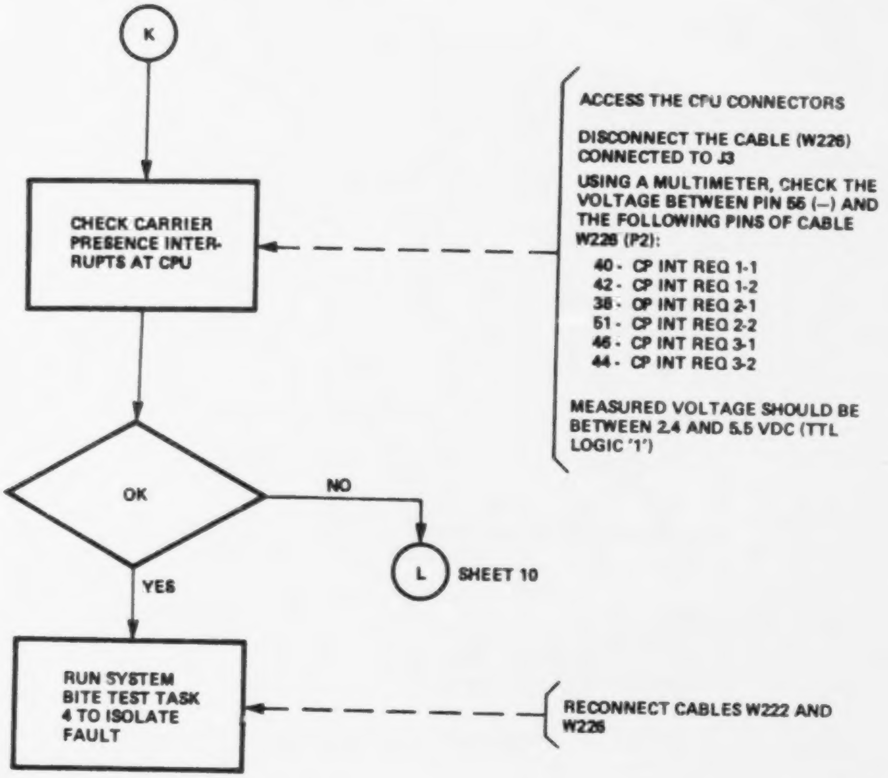
NOTES:

1. SIGNALS ARE AT TTL LEVELS
2. INT 1-3 (–) AND CP1-3 (–) ARE THE COMPLEMENT OF THE SIGNALS SHOWN

INT DONE AND CP1-3 PRES SIGNALS

57823-6

Figure 4-8. System Troubleshooting FLFC, Task 8 (Sheet 6 of 12)


K
CHECK CARRIER PRESENCE INTERRUPTS AT CPU
OK
NO
L
SHEET 10
YES
RUN SYSTEM BITE TEST TASK 4 TO ISOLATE FAULT

ACCESS THE CPU CONNECTORS

DISCONNECT THE CABLE (W226) CONNECTED TO J3

USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN PIN 56 (–) AND THE FOLLOWING PINS OF CABLE W226 (P2):

40 - CP INT REQ 1-1
42 - CP INT REQ 1-2
38 - CP INT REQ 2-1
51 - CP INT REQ 2-2
46 - CP INT REQ 3-1
44 - CP INT REQ 3-2

MEASURED VOLTAGE SHOULD BE BETWEEN 2.4 AND 5.5 VDC (TTL LOGIC '1')

RECONNECT CABLES W222 AND W226

57823-7

Figure 4-8. System Troubleshooting FLFC, Task 8 (Sheet 7 of 12)

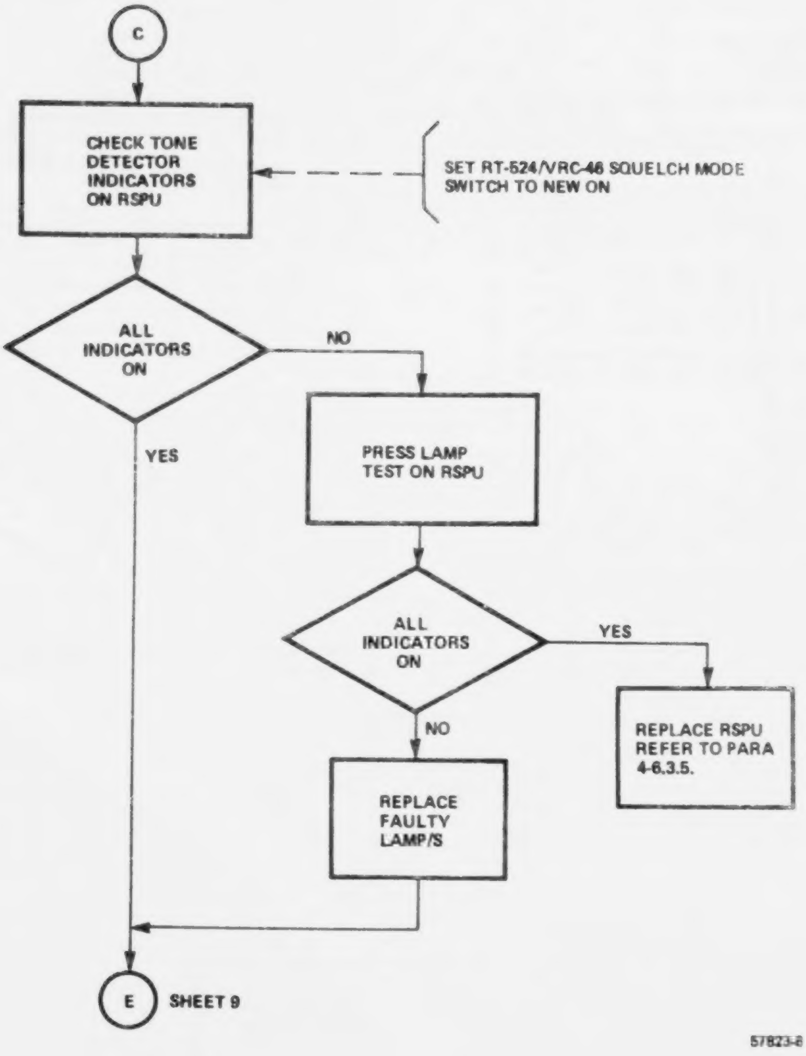
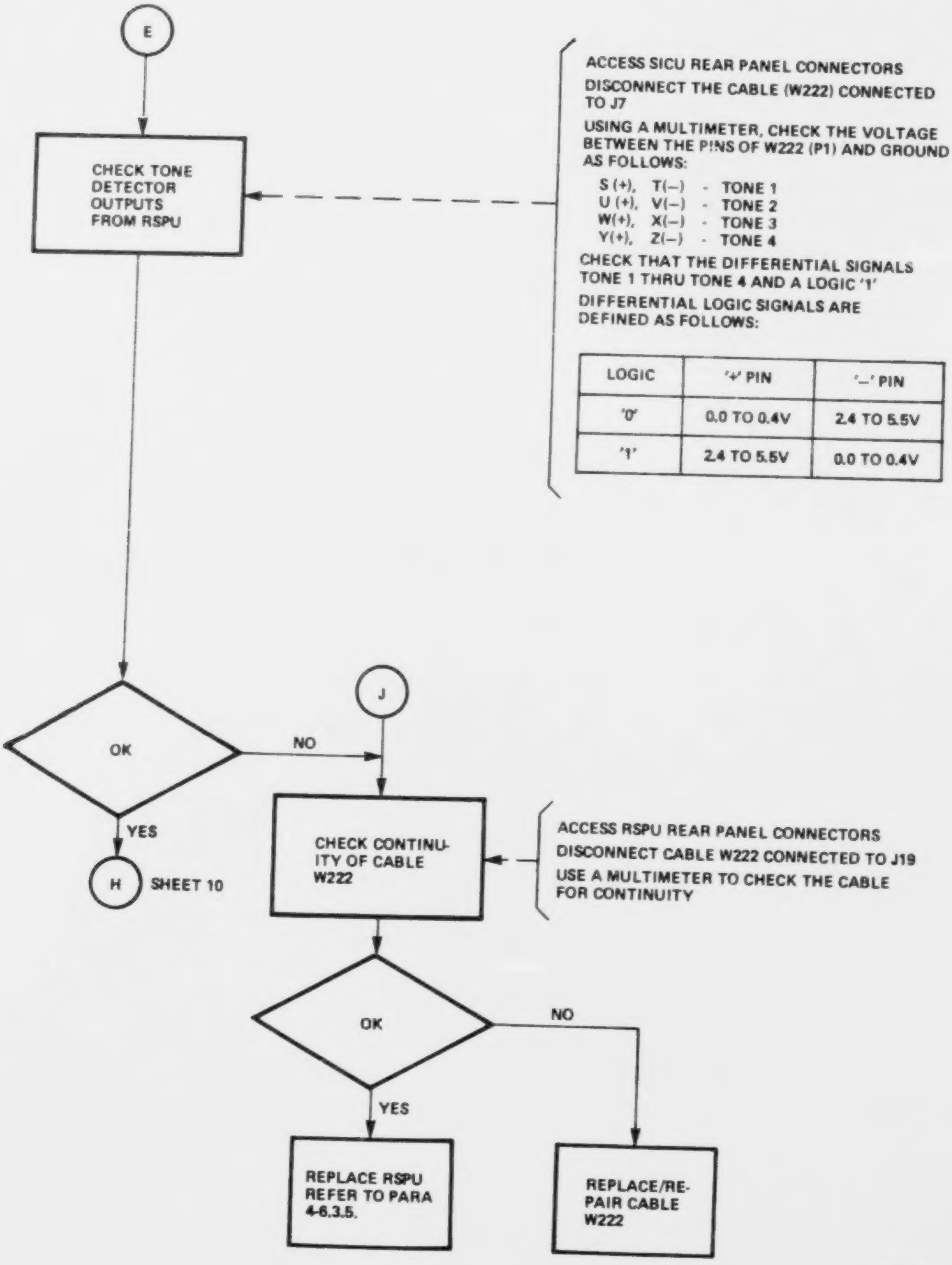

C
CHECK TONE DETECTOR INDICATORS ON RSPU
SET RT-524/VRC-46 SQUELCH MODE SWITCH TO NEW ON
ALL INDICATORS ON
NO
YES
PRESS LAMP TEST ON RSPU
ALL INDICATORS ON
YES
NO
REPLACE RSPU REFER TO PARA 4-6.3.5.
REPLACE FAULTY LAMP/S
E
SHEET 9
57823-8

Figure 4-8. System Troubleshooting FLFC, Task 8 (Sheet 8 of 12)


E
CHECK TONE DETECTOR OUTPUTS FROM RSPU
OK
NO
YES
H
SHEET 10
J
CHECK CONTINUITY OF CABLE W222
OK
NO
YES
REPLACE RSPU REFER TO PARA 4-6.3.5.
REPLACE/REPAIR CABLE W222
57823-9

ACCESS SICU REAR PANEL CONNECTORS

DISCONNECT THE CABLE (W222) CONNECTED TO J7

USING A MULTIMETER, CHECK THE VOLTAGE BETWEEN THE PINS OF W222 (P1) AND GROUND AS FOLLOWS:

S (+), T(–) - TONE 1
U (+), V(–) - TONE 2
W(+), X(–) - TONE 3
Y(+), Z(–) - TONE 4

CHECK THAT THE DIFFERENTIAL SIGNALS TONE 1 THRU TONE 4 AND A LOGIC '1'

DIFFERENTIAL LOGIC SIGNALS ARE DEFINED AS FOLLOWS:

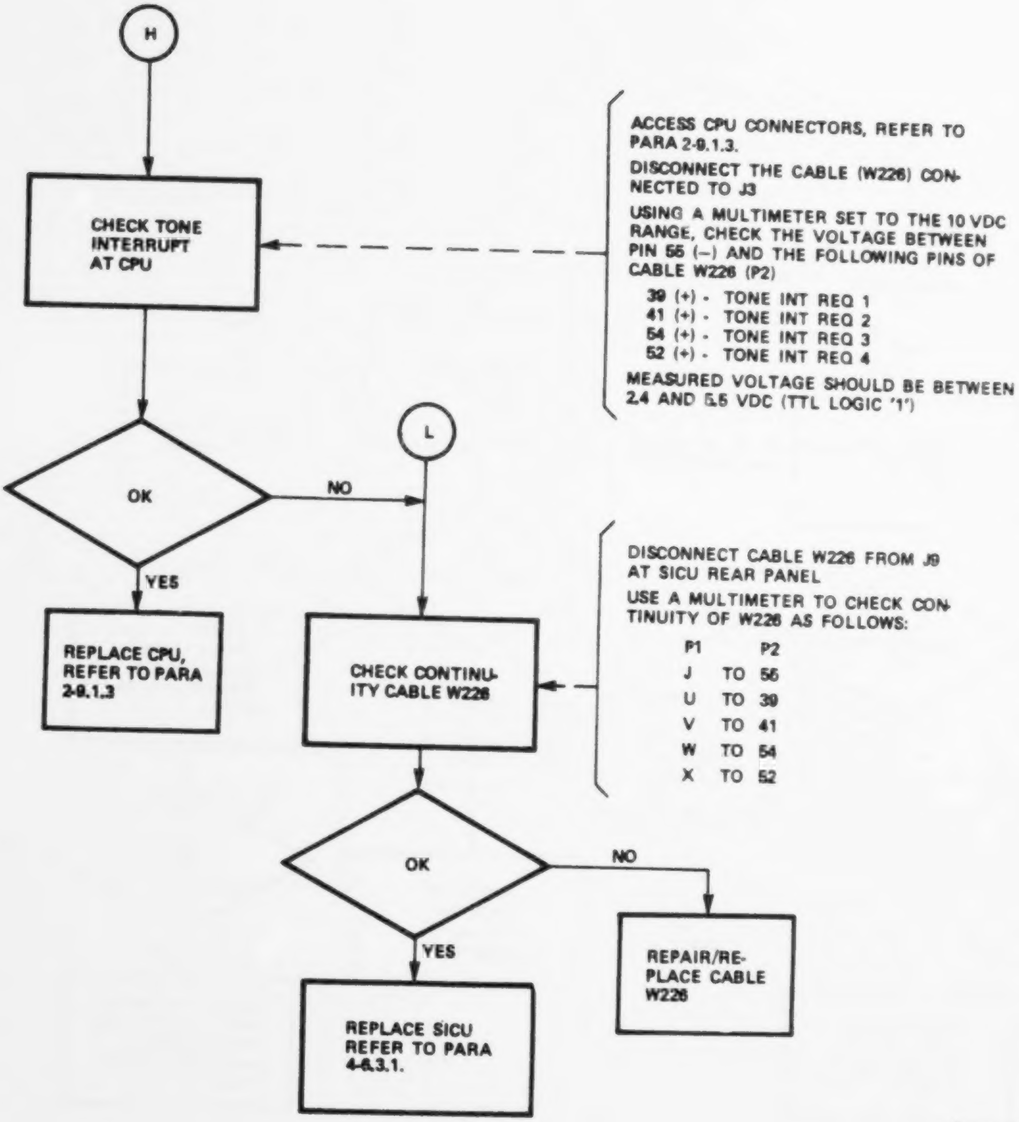
LOGIC	'+' PIN	'–' PIN
'0'	0.0 TO 0.4V	2.4 TO 5.5V
'1'	2.4 TO 5.5V	0.0 TO 0.4V

ACCESS RSPU REAR PANEL CONNECTORS

DISCONNECT CABLE W222 CONNECTED TO J19

USE A MULTIMETER TO CHECK THE CABLE FOR CONTINUITY

Figure 4-8. System Troubleshooting FLFC, Task 8 (Sheet 9 of 12)


H
CHECK TONE INTERRUPT AT CPU
OK
NO
YES
L
REPLACE CPU, REFER TO PARA 2-9.1.3
CHECK CONTINUITY CABLE W226
OK
NO
YES
REPAIR/REPLACE CABLE W226
REPLACE SICU REFER TO PARA 4-6.3.1.
57823-10

ACCESS CPU CONNECTORS, REFER TO PARA 2-9.1.3.

DISCONNECT THE CABLE (W226) CONNECTED TO J3

USING A MULTIMETER SET TO THE 10 VDC RANGE, CHECK THE VOLTAGE BETWEEN PIN 55 (–) AND THE FOLLOWING PINS OF CABLE W226 (P2)

39 (+) - TONE INT REQ 1
41 (+) - TONE INT REQ 2
54 (+) - TONE INT REQ 3
52 (+) - TONE INT REQ 4

MEASURED VOLTAGE SHOULD BE BETWEEN 2.4 AND 5.5 VDC (TTL LOGIC '1')

DISCONNECT CABLE W226 FROM J9 AT SICU REAR PANEL

USE A MULTIMETER TO CHECK CONTINUITY OF W226 AS FOLLOWS:

P1		P2
J	TO	55
U	TO	39
V	TO	41
W	TO	54
X	TO	52

Figure 4-8. System Troubleshooting FLFC, Task 8 (Sheet 10 of 12)

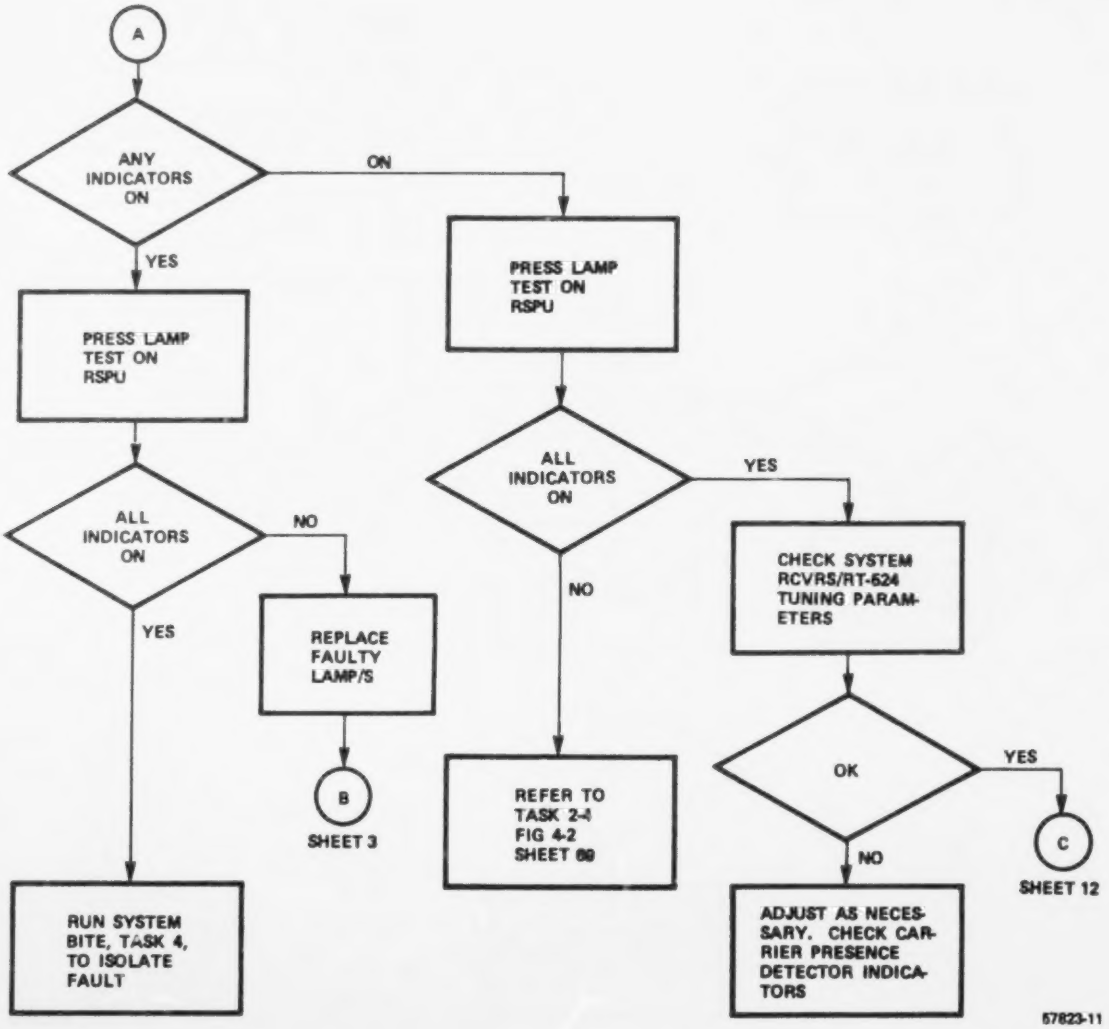

A
ANY INDICATORS ON
ON
YES
PRESS LAMP TEST ON RSPU
PRESS LAMP TEST ON RSPU
ALL INDICATORS ON
YES
ALL INDICATORS ON
NO
YES
CHECK SYSTEM RCVRS/RT-524 TUNING PARAMETERS
NO
REPLACE FAULTY LAMP/S
B
SHEET 3
REFER TO TASK 2-4 FIG 4-2 SHEET 69
OK
YES
NO
C
SHEET 12
RUN SYSTEM BITE, TASK 4, TO ISOLATE FAULT
ADJUST AS NECESSARY. CHECK CARRIER PRESENCE DETECTOR INDICATORS
57823-11

Figure 4-8. System Troubleshooting FLFC, Task 8 (Sheet 11 of 12)

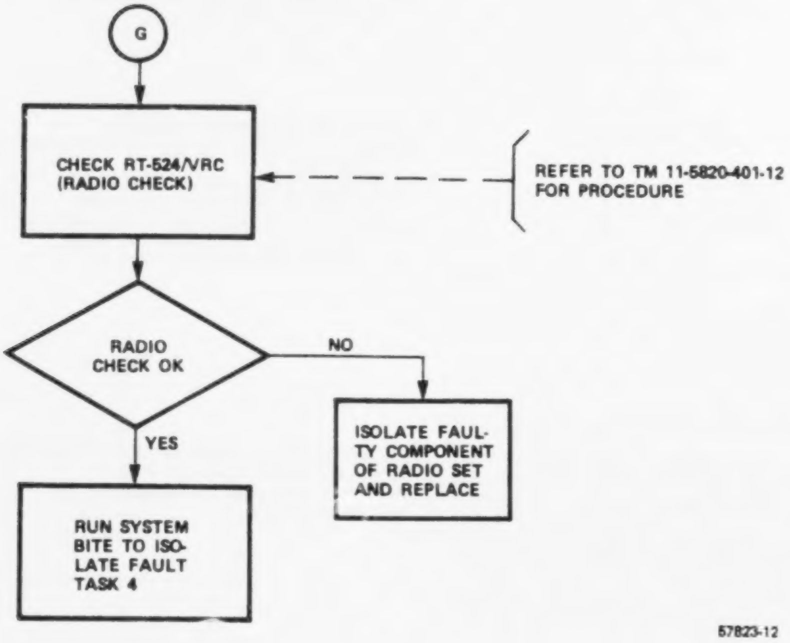

G
CHECK RT-524/VRC (RADIO CHECK)
REFER TO TM 11-5820-401-12 FOR PROCEDURE
RADIO CHECK OK
NO
YES
ISOLATE FAULTY COMPONENT OF RADIO SET AND REPLACE
RUN SYSTEM BITE TO ISOLATE FAULT TASK 4
57823-12

Figure 4-8. System Troubleshooting FLFC, Task 8 (Sheet 12 of 12)

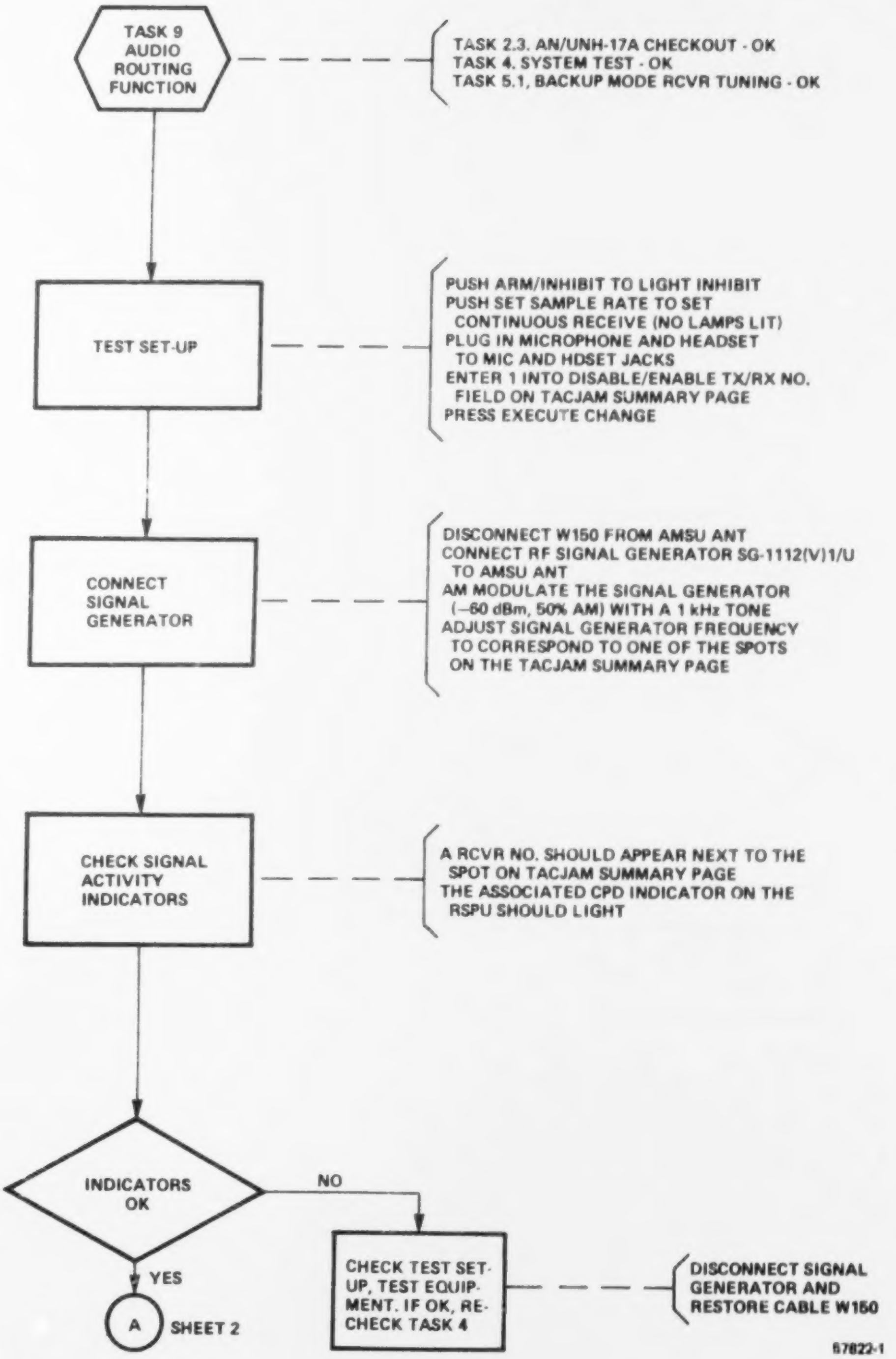
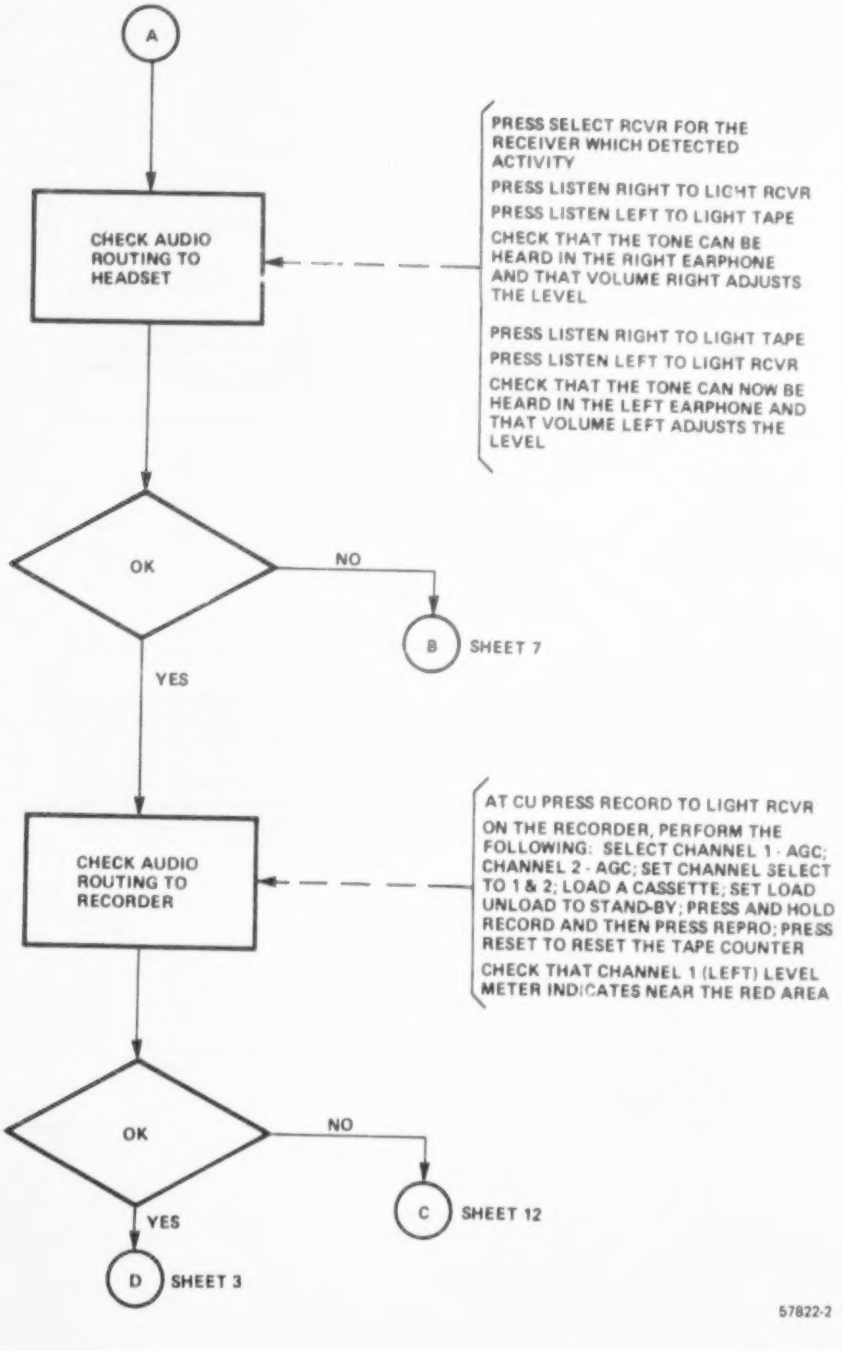

TASK 9
AUDIO
ROUTING
FUNCTION
TASK 2.3. AN/UNH-17A CHECKOUT - OK
TASK 4. SYSTEM TEST - OK
TASK 5.1, BACKUP MODE RCVR TUNING - OK
TEST SET-UP
PUSH ARM/INHIBIT TO LIGHT INHIBIT
PUSH SET SAMPLE RATE TO SET
CONTINUOUS RECEIVE (NO LAMPS LIT)
PLUG IN MICROPHONE AND HEADSET
TO MIC AND HDSET JACKS
ENTER 1 INTO DISABLE/ENABLE TX/RX NO.
FIELD ON TACJAM SUMMARY PAGE
PRESS EXECUTE CHANGE
CONNECT
SIGNAL
GENERATOR
DISCONNECT W150 FROM AMSU ANT
CONNECT RF SIGNAL GENERATOR SG-1112(V)1/U
TO AMSU ANT
AM MODULATE THE SIGNAL GENERATOR
(−60 dBm, 50% AM) WITH A 1 kHz TONE
ADJUST SIGNAL GENERATOR FREQUENCY
TO CORRESPOND TO ONE OF THE SPOTS
ON THE TACJAM SUMMARY PAGE
CHECK SIGNAL
ACTIVITY
INDICATORS
A RCVR NO. SHOULD APPEAR NEXT TO THE
SPOT ON TACJAM SUMMARY PAGE
THE ASSOCIATED CPD INDICATOR ON THE
RSPU SHOULD LIGHT
INDICATORS
OK
NO
YES
A
SHEET 2
CHECK TEST SET-UP, TEST EQUIPMENT. IF OK, RECHECK TASK 4
DISCONNECT SIGNAL
GENERATOR AND
RESTORE CABLE W150
87822-1

Figure 4-9. System Troubleshooting FLFC, Task 9 (Sheet 1 of 15)


A
CHECK AUDIO ROUTING TO HEADSET
OK
NO
B
SHEET 7
YES
CHECK AUDIO ROUTING TO RECORDER
OK
NO
C
SHEET 12
YES
D
SHEET 3
57822-2

PRESS SELECT RCVR FOR THE RECEIVER WHICH DETECTED ACTIVITY

PRESS LISTEN RIGHT TO LIGHT RCVR

PRESS LISTEN LEFT TO LIGHT TAPE

CHECK THAT THE TONE CAN BE HEARD IN THE RIGHT EARPHONE AND THAT VOLUME RIGHT ADJUSTS THE LEVEL

PRESS LISTEN RIGHT TO LIGHT TAPE

PRESS LISTEN LEFT TO LIGHT RCVR

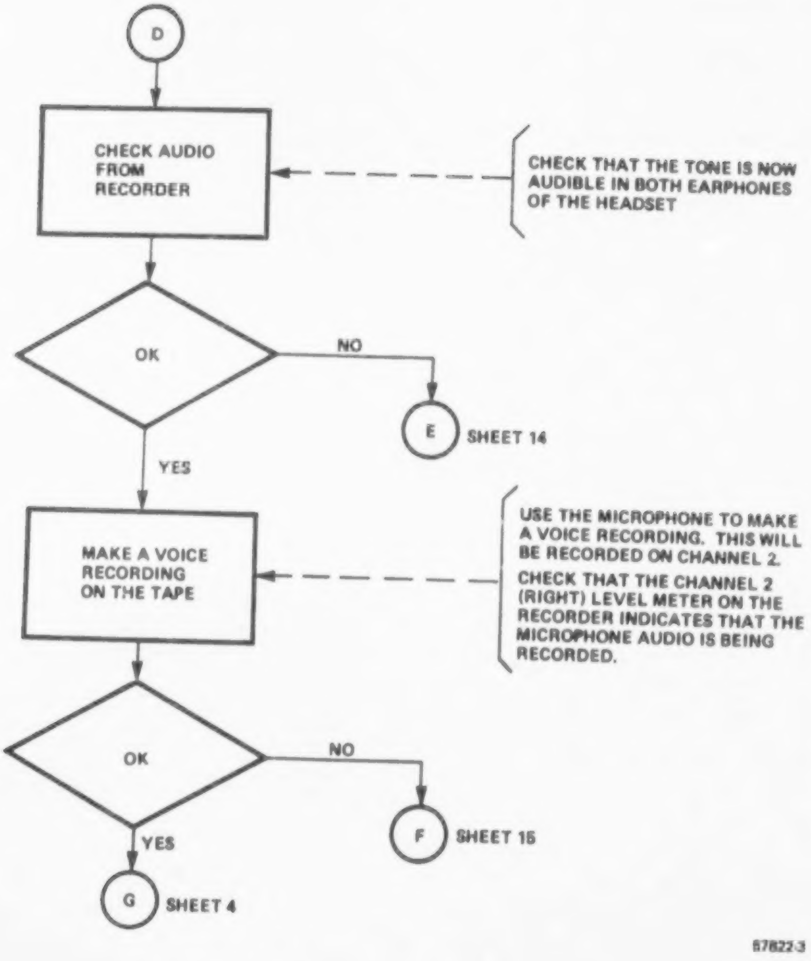
CHECK THAT THE TONE CAN NOW BE HEARD IN THE LEFT EARPHONE AND THAT VOLUME LEFT ADJUSTS THE LEVEL

AT CU PRESS RECORD TO LIGHT RCVR

ON THE RECORDER, PERFORM THE FOLLOWING: SELECT CHANNEL 1 - AGC; CHANNEL 2 - AGC; SET CHANNEL SELECT TO 1 & 2; LOAD A CASSETTE; SET LOAD UNLOAD TO STAND-BY; PRESS AND HOLD RECORD AND THEN PRESS REPRO; PRESS RESET TO RESET THE TAPE COUNTER

CHECK THAT CHANNEL 1 (LEFT) LEVEL METER INDICATES NEAR THE RED AREA

Figure 4-9. System Troubleshooting FLFC, Task 9 (Sheet 2 of 15)

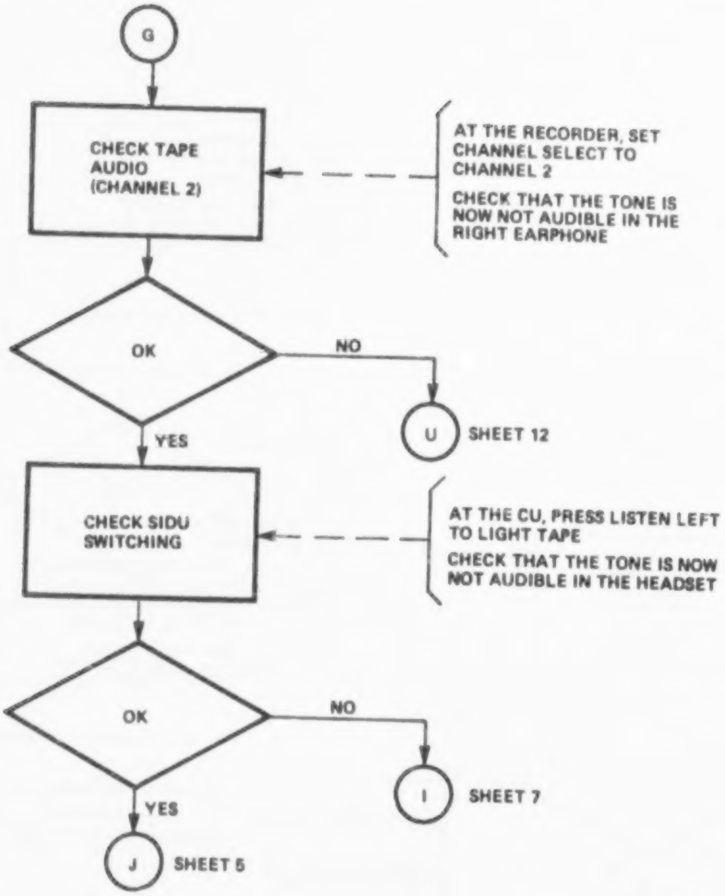


CHECK THAT THE TONE IS NOW AUDIBLE IN BOTH EARPHONES OF THE HEADSET

USE THE MICROPHONE TO MAKE A VOICE RECORDING. THIS WILL BE RECORDED ON CHANNEL 2.

CHECK THAT THE CHANNEL 2 (RIGHT) LEVEL METER ON THE RECORDER INDICATES THAT THE MICROPHONE AUDIO IS BEING RECORDED.

Figure 4-9. System Troubleshooting FLFC, Task 9 (Sheet 3 of 15)


G
CHECK TAPE AUDIO (CHANNEL 2)
AT THE RECORDER, SET CHANNEL SELECT TO CHANNEL 2
CHECK THAT THE TONE IS NOW NOT AUDIBLE IN THE RIGHT EARPHONE
OK
NO
U
SHEET 12
YES
CHECK SIDU SWITCHING
AT THE CU, PRESS LISTEN LEFT TO LIGHT TAPE
CHECK THAT THE TONE IS NOW NOT AUDIBLE IN THE HEADSET
OK
NO
I
SHEET 7
YES
J
SHEET 5

57822-4

Figure 4-9. System Troubleshooting FLFC, Task 9 (Sheet 4 of 15)

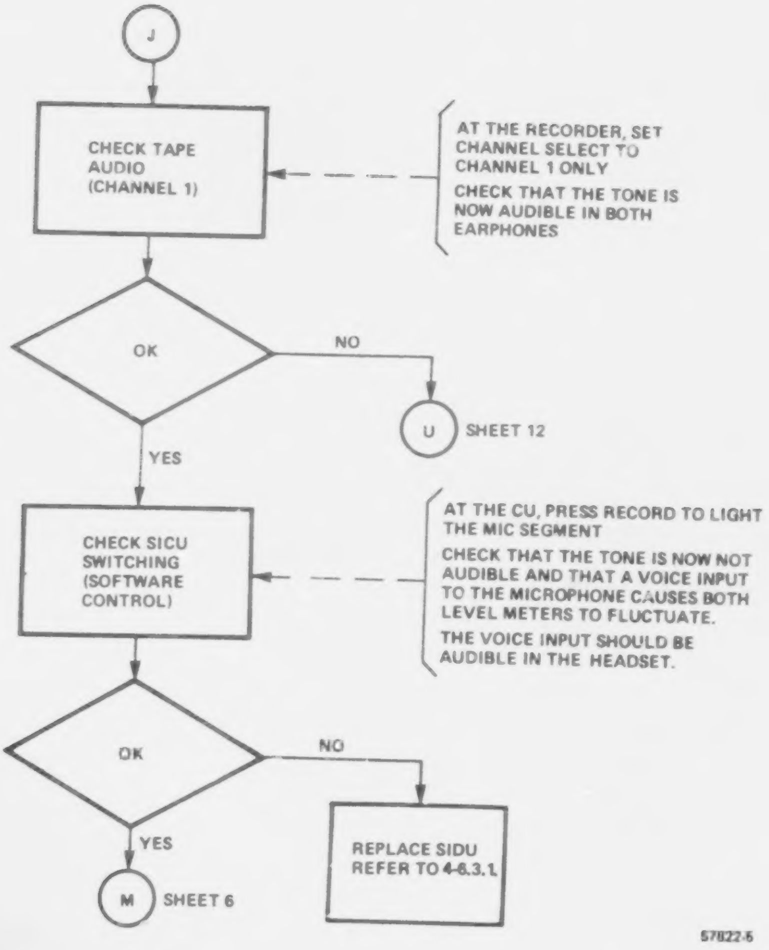
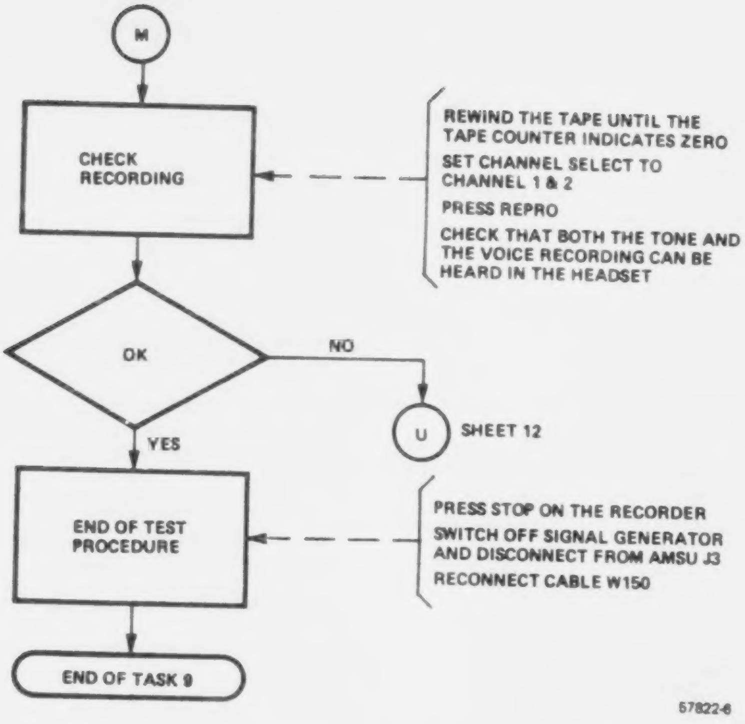

J
CHECK TAPE AUDIO (CHANNEL 1)
AT THE RECORDER, SET CHANNEL SELECT TO CHANNEL 1 ONLY
CHECK THAT THE TONE IS NOW AUDIBLE IN BOTH EARPHONES
OK
NO
U
SHEET 12
YES
CHECK SICU SWITCHING (SOFTWARE CONTROL)
AT THE CU, PRESS RECORD TO LIGHT THE MIC SEGMENT
CHECK THAT THE TONE IS NOW NOT AUDIBLE AND THAT A VOICE INPUT TO THE MICROPHONE CAUSES BOTH LEVEL METERS TO FLUCTUATE.
THE VOICE INPUT SHOULD BE AUDIBLE IN THE HEADSET.
OK
NO
REPLACE SIDU REFER TO 4-6.3.1.
YES
M
SHEET 6
57822-6

Figure 4-9. System Troubleshooting FLFC, Task 9 (Sheet 5 of 15)



REWIND THE TAPE UNTIL THE TAPE COUNTER INDICATES ZERO

SET CHANNEL SELECT TO CHANNEL 1 & 2

PRESS REPRO

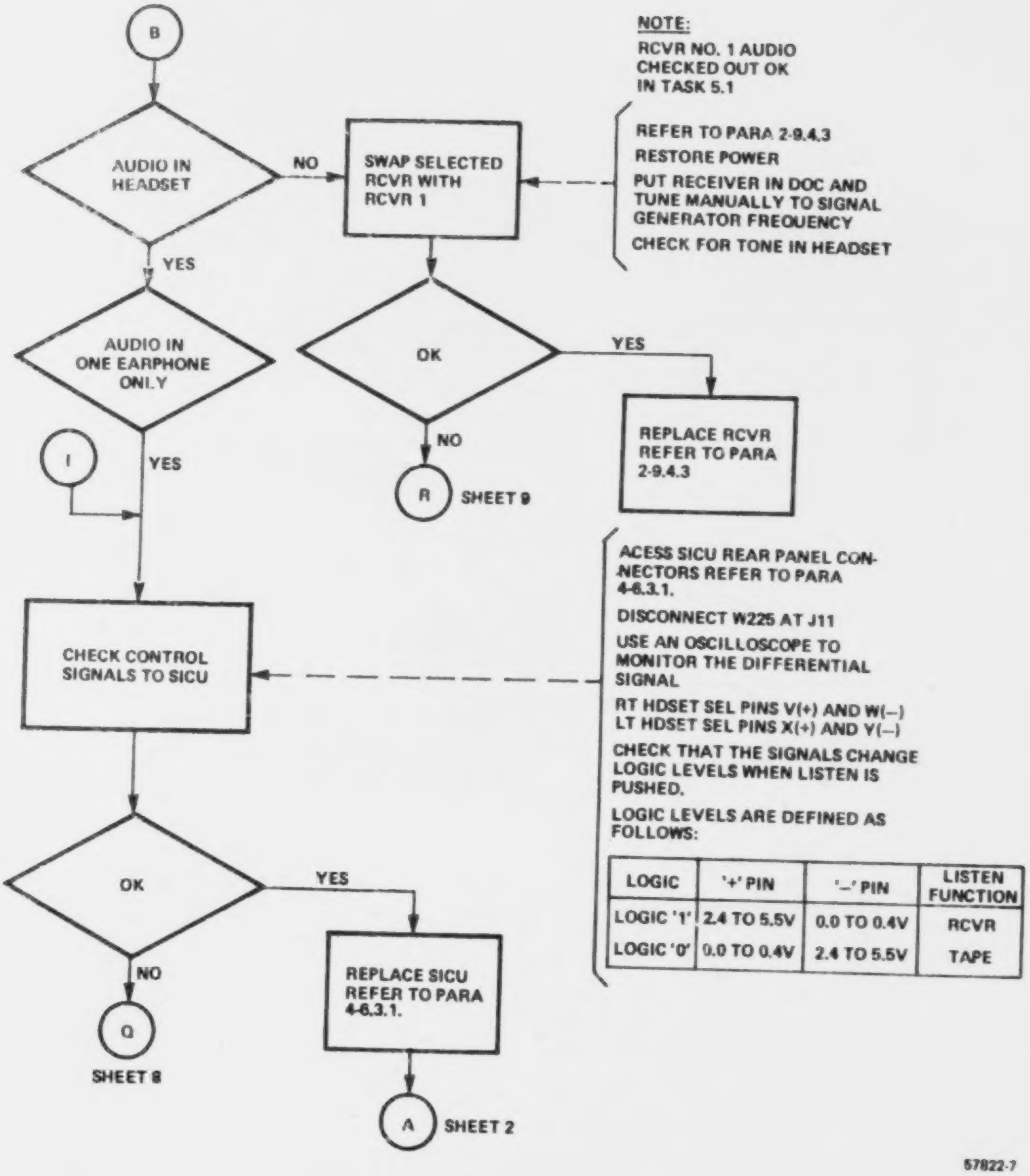
CHECK THAT BOTH THE TONE AND THE VOICE RECORDING CAN BE HEARD IN THE HEADSET

PRESS STOP ON THE RECORDER

SWITCH OFF SIGNAL GENERATOR AND DISCONNECT FROM AMSU J3

RECONNECT CABLE W150

Figure 4-9. System Troubleshooting FLFC, Task 9 (Sheet 6 of 15)


B
AUDIO IN HEADSET
NO
YES
SWAP SELECTED RCVR WITH RCVR 1
AUDIO IN ONE EARPHONE ONLY
OK
YES
NO
REPLACE RCVR REFER TO PARA 2-9.4.3
R
SHEET 9
I
YES
CHECK CONTROL SIGNALS TO SICU
OK
YES
NO
REPLACE SICU REFER TO PARA 4-6.3.1.
Q
SHEET 8
A
SHEET 2
57822-7

NOTE:
RCVR NO. 1 AUDIO CHECKED OUT OK IN TASK 5.1

REFER TO PARA 2-9.4.3

RESTORE POWER

PUT RECEIVER IN DOC AND TUNE MANUALLY TO SIGNAL GENERATOR FREQUENCY

CHECK FOR TONE IN HEADSET

ACESS SICU REAR PANEL CONNECTORS REFER TO PARA 4-6.3.1.

DISCONNECT W225 AT J11

USE AN OSCILLOSCOPE TO MONITOR THE DIFFERENTIAL SIGNAL

RT HDSET SEL PINS V(+) AND W(–)
LT HDSET SEL PINS X(+) AND Y(–)

CHECK THAT THE SIGNALS CHANGE LOGIC LEVELS WHEN LISTEN IS PUSHED.

LOGIC LEVELS ARE DEFINED AS FOLLOWS:

LOGIC	'+' PIN	'–' PIN	LISTEN FUNCTION
LOGIC '1'	2.4 TO 5.5V	0.0 TO 0.4V	RCVR
LOGIC '0'	0.0 TO 0.4V	2.4 TO 5.5V	TAPE

Figure 4-9. Syst Troubleshooting FLFC, Task 9 (Sheet 7 of 15)

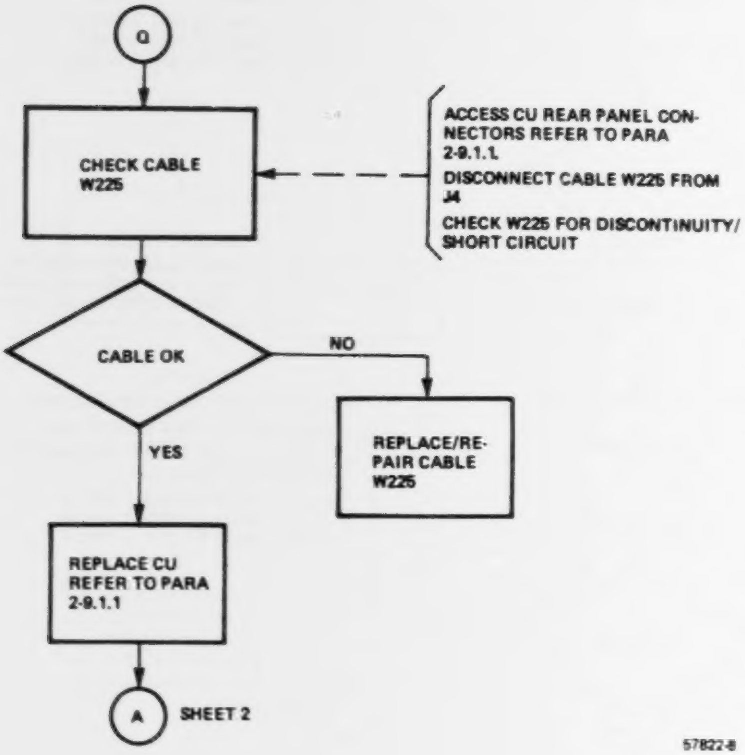
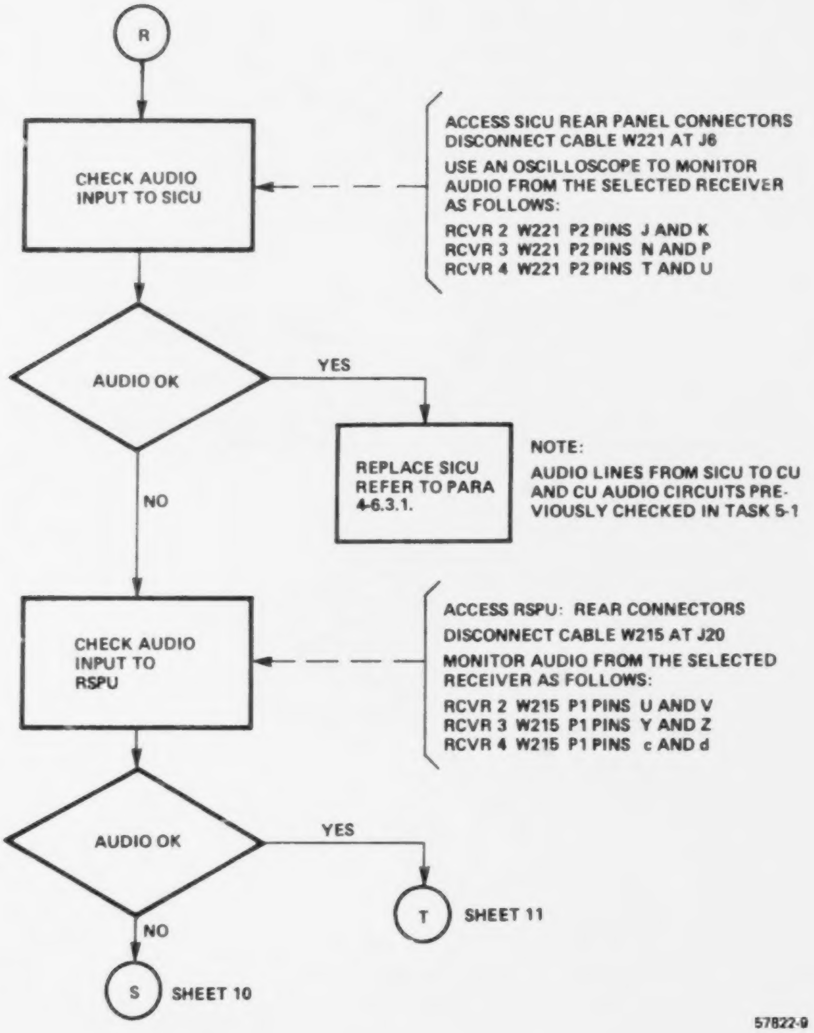

Q
CHECK CABLE W225
ACCESS CU REAR PANEL CONNECTORS REFER TO PARA 2-9.1.1.
DISCONNECT CABLE W225 FROM J4
CHECK W225 FOR DISCONTINUITY/SHORT CIRCUIT
CABLE OK
NO
YES
REPLACE/REPAIR CABLE W225
REPLACE CU REFER TO PARA 2-9.1.1
A
SHEET 2
57822-8

Figure 4-9. System Troubleshooting FLFC, Task 9 (Sheet 8 of 15)


R
CHECK AUDIO INPUT TO SICU
AUDIO OK
YES
NO
REPLACE SICU REFER TO PARA 4-6.3.1.
CHECK AUDIO INPUT TO RSPU
AUDIO OK
YES
NO
T
SHEET 11
S
SHEET 10
57822-9

ACCESS SICU REAR PANEL CONNECTORS
DISCONNECT CABLE W221 AT J6
USE AN OSCILLOSCOPE TO MONITOR AUDIO FROM THE SELECTED RECEIVER AS FOLLOWS:
RCVR 2 W221 P2 PINS J AND K
RCVR 3 W221 P2 PINS N AND P
RCVR 4 W221 P2 PINS T AND U

NOTE:
AUDIO LINES FROM SICU TO CU AND CU AUDIO CIRCUITS PREVIOUSLY CHECKED IN TASK 5-1

ACCESS RSPU: REAR CONNECTORS
DISCONNECT CABLE W215 AT J20
MONITOR AUDIO FROM THE SELECTED RECEIVER AS FOLLOWS:
RCVR 2 W215 P1 PINS U AND V
RCVR 3 W215 P1 PINS Y AND Z
RCVR 4 W215 P1 PINS c AND d

Figure 4-9. System Troubleshooting FLFC, Task 9 (Sheet 9 of 15)

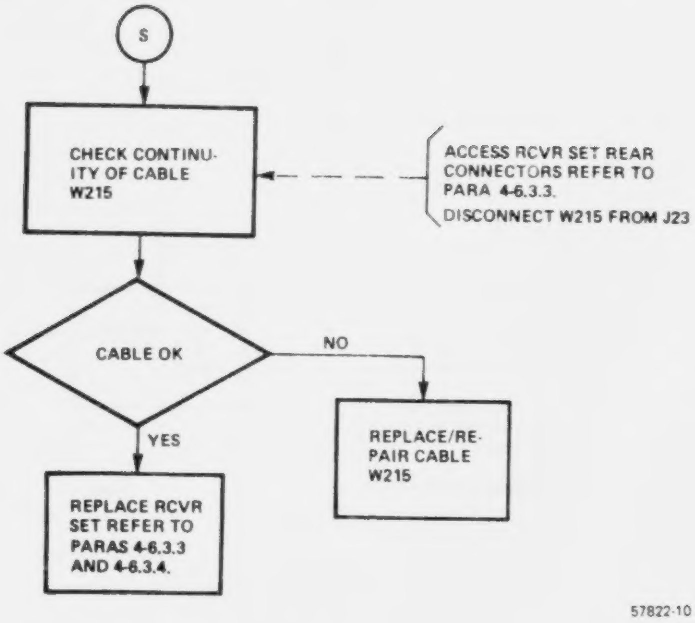

S
CHECK CONTINUITY OF CABLE W215
ACCESS RCVR SET REAR CONNECTORS REFER TO PARA 4-6.3.3.
DISCONNECT W215 FROM J23
CABLE OK
NO
YES
REPLACE/REPAIR CABLE W215
REPLACE RCVR SET REFER TO PARAS 4-6.3.3 AND 4-6.3.4.
57822-10

Figure 4-9. System Troubleshooting FLFC, Task 9 (Sheet 10 of 15)

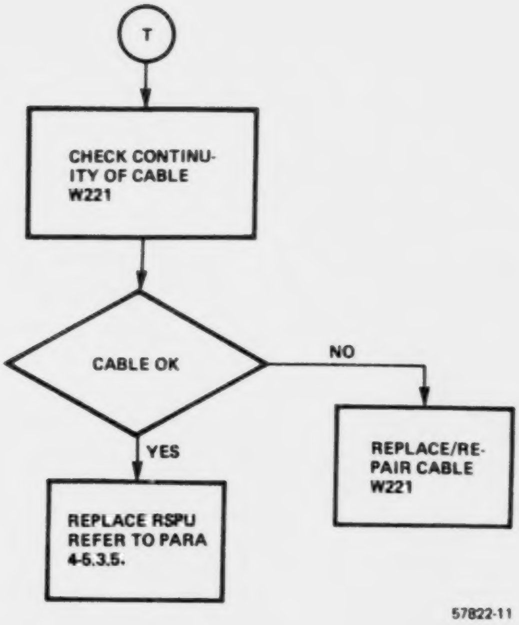

T
CHECK CONTINUITY OF CABLE W221
CABLE OK
NO
YES
REPLACE/REPAIR CABLE W221
REPLACE RSPU REFER TO PARA 4-5.3.5.
57822-11

Figure 4-9. System Troubleshooting FLFC, Task 9 (Sheet 11 of 15)

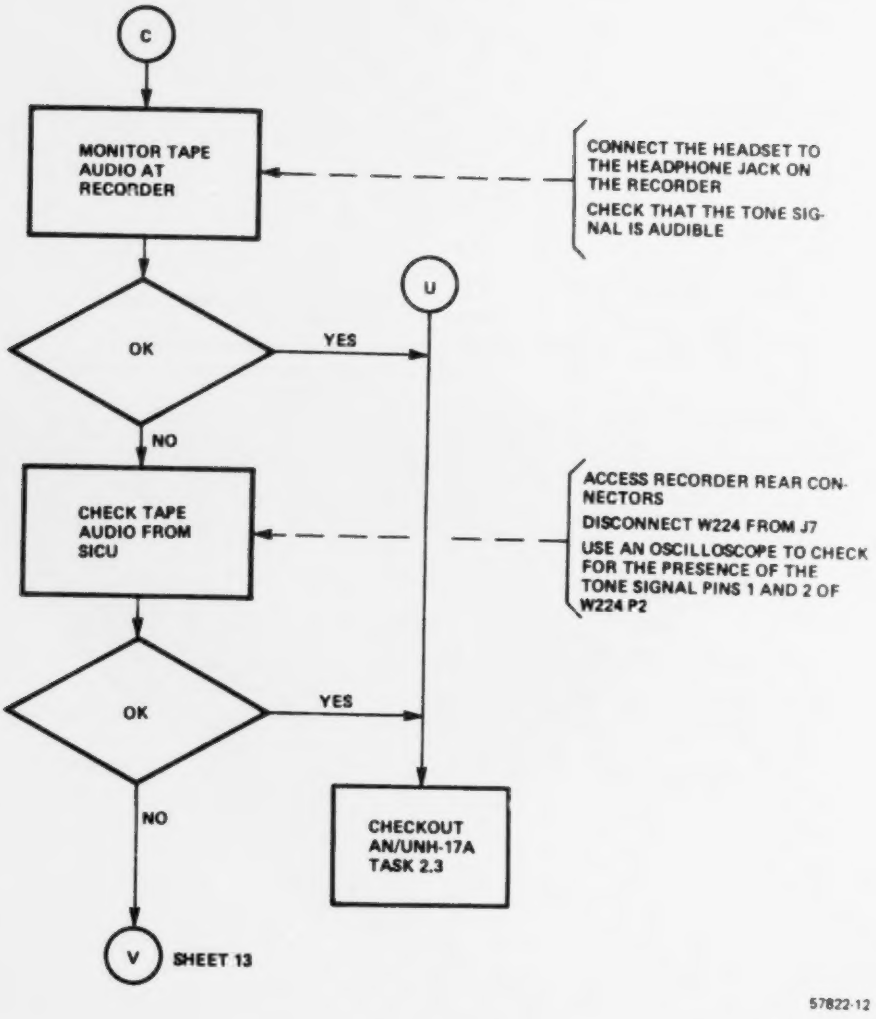

C
MONITOR TAPE AUDIO AT RECORDER
CONNECT THE HEADSET TO THE HEADPHONE JACK ON THE RECORDER
CHECK THAT THE TONE SIGNAL IS AUDIBLE
OK
YES
NO
U
CHECK TAPE AUDIO FROM SICU
ACCESS RECORDER REAR CONNECTORS
DISCONNECT W224 FROM J7
USE AN OSCILLOSCOPE TO CHECK FOR THE PRESENCE OF THE TONE SIGNAL PINS 1 AND 2 OF W224 P2
OK
YES
NO
CHECKOUT AN/UNH-17A TASK 2.3
V
SHEET 13
57822-12

Figure 4-9. System Troubleshooting FLFC, Task 9 (Sheet 12 of 15)

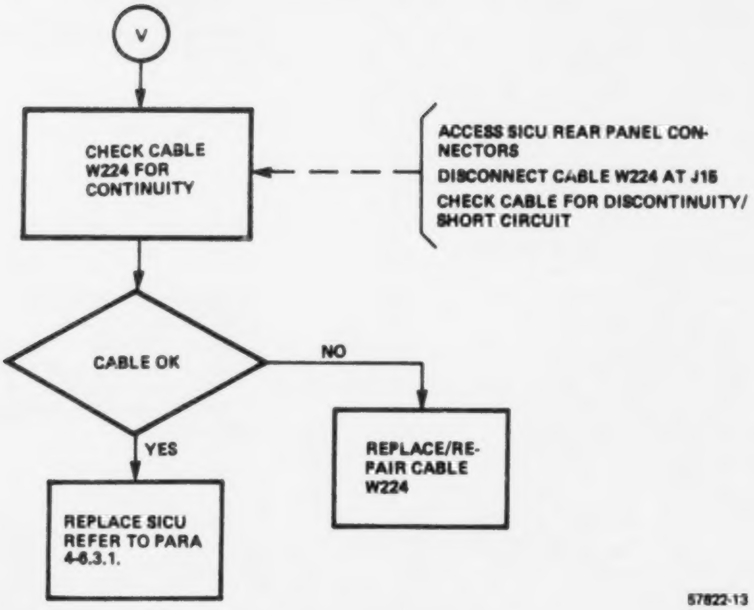

V
CHECK CABLE W224 FOR CONTINUITY
ACCESS SICU REAR PANEL CONNECTORS
DISCONNECT CABLE W224 AT J15
CHECK CABLE FOR DISCONTINUITY/ SHORT CIRCUIT
CABLE OK
NO
YES
REPLACE/REPAIR CABLE W224
REPLACE SICU REFER TO PARA 4-6.3.1.
57822-13

Figure 4-9. System Troubleshooting FLFC, Task 9 (Sheet 13 of 15)

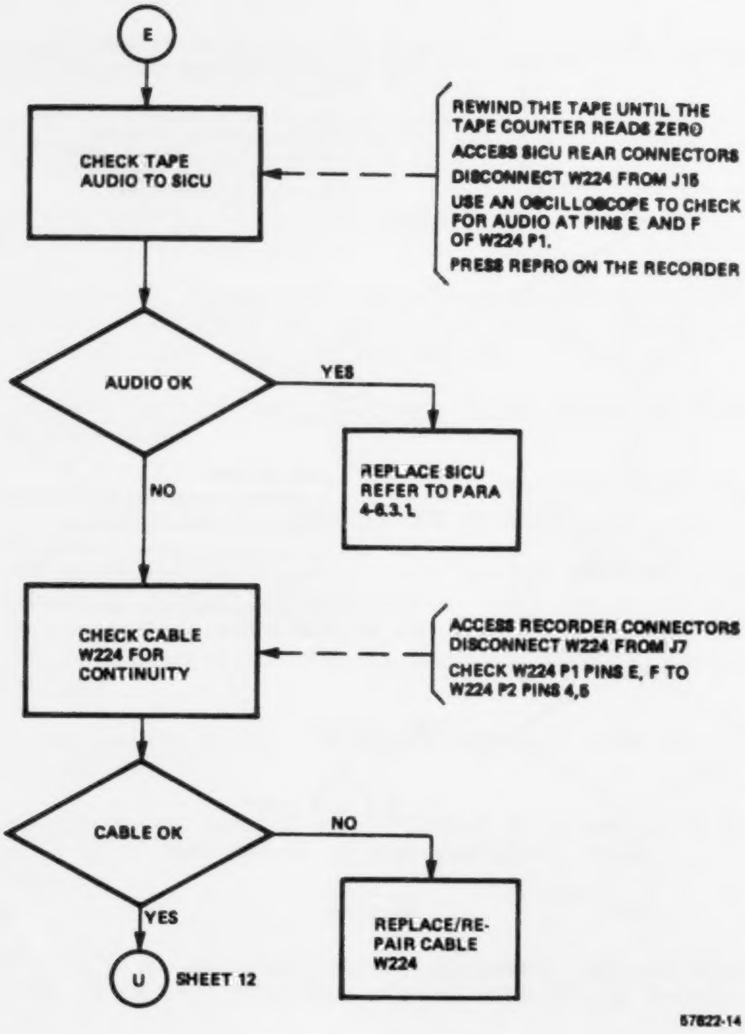

E
CHECK TAPE AUDIO TO SICU
REWIND THE TAPE UNTIL THE TAPE COUNTER READS ZERO
ACCESS SICU REAR CONNECTORS
DISCONNECT W224 FROM J15
USE AN OSCILLOSCOPE TO CHECK FOR AUDIO AT PINS E AND F OF W224 P1.
PRESS REPRO ON THE RECORDER
AUDIO OK
YES
REPLACE SICU REFER TO PARA 4-6.3.1.
NO
CHECK CABLE W224 FOR CONTINUITY
ACCESS RECORDER CONNECTORS
DISCONNECT W224 FROM J7
CHECK W224 P1 PINS E, F TO W224 P2 PINS 4,5
CABLE OK
NO
REPLACE/REPAIR CABLE W224
YES
U
SHEET 12
57822-14

Figure 4-9. System Troubleshooting FLFC, Task 9 (Sheet 14 of 15)

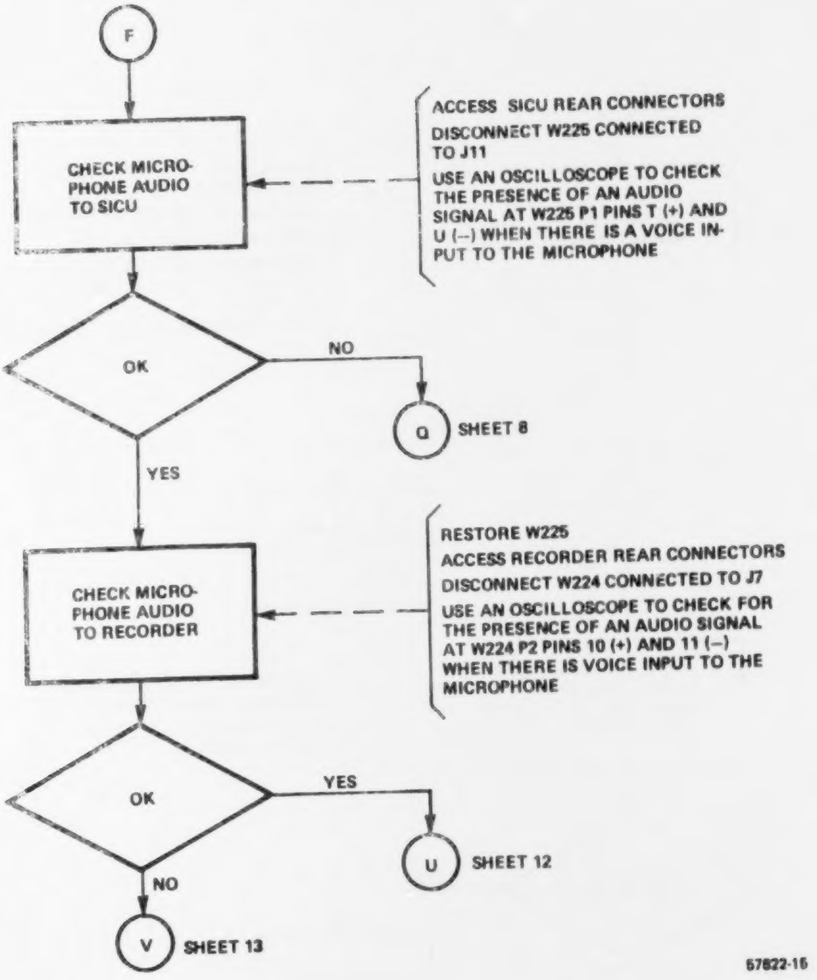

F
CHECK MICROPHONE AUDIO TO SICU
ACCESS SICU REAR CONNECTORS
DISCONNECT W225 CONNECTED TO J11
USE AN OSCILLOSCOPE TO CHECK THE PRESENCE OF AN AUDIO SIGNAL AT W225 P1 PINS T (+) AND U (–) WHEN THERE IS A VOICE INPUT TO THE MICROPHONE
OK
NO
Q
SHEET 8
YES
CHECK MICROPHONE AUDIO TO RECORDER
RESTORE W225
ACCESS RECORDER REAR CONNECTORS
DISCONNECT W224 CONNECTED TO J7
USE AN OSCILLOSCOPE TO CHECK FOR THE PRESENCE OF AN AUDIO SIGNAL AT W224 P2 PINS 10 (+) AND 11 (–) WHEN THERE IS VOICE INPUT TO THE MICROPHONE
OK
YES
U
SHEET 12
NO
V
SHEET 13
57822-15

Figure 4-9. System Troubleshooting FLFC, Task 9 (Sheet 15 of 15)

4-4. MODULE/ASSEMBLY TROUBLESHOOTING. Troubleshooting procedures for the modules/assemblies repairable by Direct Support maintenance personnel are provided in the following subparagraphs.

4-4.1 RCU Bus Termination (A19), Troubleshooting. Troubleshooting procedures for A19 are described in table 4-5.

4-4.2 Filter Assembly (1A13), Troubleshooting. Troubleshooting procedures for A13 are described in tables 4-6 and 4-7.

4-4.3 Voice Filter Control (A18A1), Troubleshooting. Troubleshooting procedures for A18A1 are described in tables 4-8 and 4-9.

4-4.4 Mast Control Switch (2A16), Troubleshooting. Troubleshooting procedures for 2A16 are described in tables 4-10 and 4-11.

4-4.5 Air Compressor Control (A17), Troubleshooting. Troubleshooting procedures for A17 are described in table 4-12.

4-4.6 Terminal Box (1A14), Troubleshooting. Troubleshooting procedures for 1A14 include checking for broken wires and poor solder joints. Broken wires should be replaced. Poor solder joints should be resoldered.

4-4.7 Antenna Support (A16), Troubleshooting. Troubleshooting procedures for A16 are described in table 4-13.

Section IV. MAINTENANCE OF AN/MLQ-34

4-5. GENERAL. DS maintenance of the system is accomplished by carrying out the tasks described in this section. DS maintenance tasks are allocated by the MAC to individual units and assemblies which form the system. DS maintenance for certain units and assemblies is covered in separate technical manuals. These are referenced accordingly.

4-5.1 Accessing the Shelter Front. To access equipment under the Front of the Shelter proceed as follows:

a. Ensure vehicle is not running and is parked in accordance with procedures contained in TM 32-5865-060-10, System Operator's Manual.

WARNING

To avoid injury to personnel and/or equipment, ensure there are no obstructions which will interfere with sliding of the Shelter.

b. Open and latch the tailgate.

c. Open all circuit breakers on the Power Distribution Panel located inside the Shelter.

d. Close and secure Shelter door.

Table 4-5. RCU Bus Termination A19 Troubleshooting Chart

Step	Test condition	Procedures	Normal indication	Remarks and further checks
1	Unit on bench. Equipment used: Multimeter ME-303A/U.	With the aid of figures 4-10 and 4-11 and multimeter, measure resistance between pins:		If resistance measurements vary from normal, check for:
		a. A and R	a. No resistance	a. Poor connection of jumper between pins A and R.
		b. A and S	b. 39 Ω ±5%	b. Poor solder joints or faulty R1, CR1, CR2.
		c. A and T	c. 39 Ω ±5%	c. Poor solder joint or faulty R2, CR3, CR4.
		d. A and U	d. 39 Ω ±5%	d. Poor solder joints or faulty R3, CR5, CR6.
		e. A and V	e. 39 Ω ±5%	e. Poor solder joints or faulty R4, CR7, CR8.

Table 4-5. RCU Bus Termination A19 Troubleshooting Chart - Continued

Step	Test condition	Procedures	Normal indication	Remarks and further checks
2	Multimeter settings: Function - Ohms Range - R X 10	With multimeter (voltage polarity as indicated above each column of pins), measure resistance between pins: (-) (+)		If resistance measurements vary from normal, check for:
		a. D A	a. 3.19	a. Poor solder joint; faulty CR1
		b. D S	b. 3.19	b. Poor solder joint; faulty CR2
		c. H A	c. 3.19	c. Poor solder joint; faulty CR3
		d. H T	d. 3.19	d. Poor solder joint; faulty CR4
		e. F A	e. 3.19	e. Poor solder joint; faulty CR5
		f. F U	f. 3.19	f. Poor solder joint; faulty CR6
		g. K A	g. 3.19	g. Poor solder joint; faulty CR7
		h. K V	h. 3.19	h. Poor solder joint; faulty CR8

Table 4-5. RCU Bus Termination A19 Troubleshooting Chart - Continued

Step	Test condition	Procedures	Normal indication	Remarks and further checks
3	Multimeter settings: Function - Ohms Range - R X 10M	With multimeter (voltage polarity as indicated above each column of pins), measure resistance between pins:		If resistance measurements vary from normal, check for:
		(+) (-) a. D A	a. 14.4M	a. Poor solder joint; faulty CR1
		b. D S	b. 14.4M	b. Poor solder joint; faulty CR2
		c. H A	c. 14.4M	c. Poor solder joint; faulty CR3
		d. H T	d. 14.4M	d. Poor solder joint; faulty CR4
		e. F A	e. 14.4M	e. Poor solder joint; faulty CR5
		f. F U	f. 14.4M	f. Poor solder joint; faulty CR6
		g. K A	g. 14.4M	g. Poor solder joint; faulty CR7
		h. K V	h. 14.4M	h. Poor solder joint; faulty CR8

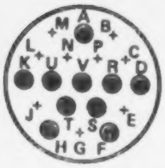


Figure 4-10. RCU Bus Termination (A19), Connector Pin Layout Diagram

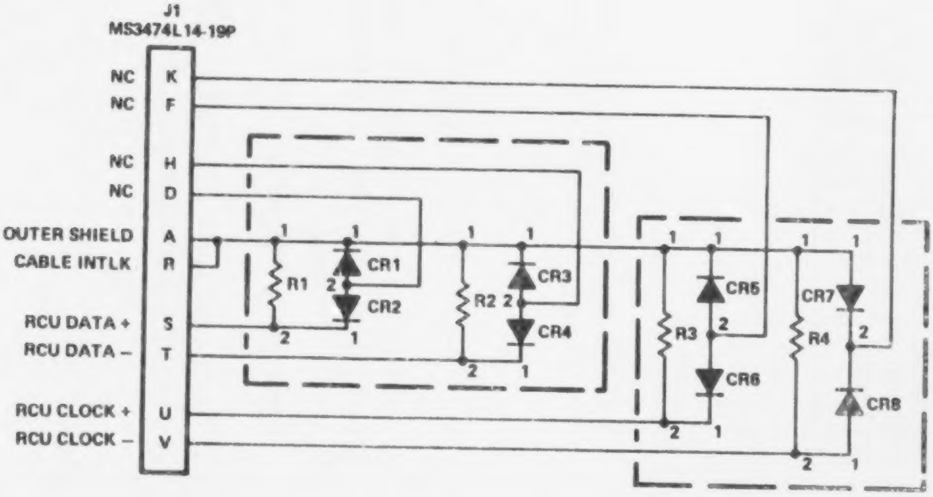


Figure 4-11. RCU Bus Termination (A19), Schematic Diagram

Table 4-6. Filter Assembly 1A13 Troubleshooting Chart

Step	Test condition	Procedures	Normal indication	Remarks and further checks
1	Multimeter function switch set to measure resistance. Range switch to R X 10.	With multimeter measure resistance of all RF filters and ground connections.	Resistance measurements should be as indicated in "Normal value" column of table 4-7.	Open circuits should be checked further. Those filters which do not show continuity should be replaced.

Table 4-7. Filter Assembly (1A13) Connections

From jack	To jack	Component measured	Normal value (RX10)
J1-1	J2-B	FL1	Continuity
J1-2	J2-C	FL2	Continuity
J1-3	J2-D	FL3	Continuity
J1-4	J2-E	FL4	Continuity
J1-31	J2-F	FL5	Continuity
J1-30	J2-G	FL6	Continuity
J1-29	J2-H	FL7	Continuity
J1-28	J2-J	FL8	Continuity
J1-27	J2-K	FL9	Continuity
J1-26	J2-L	FL10	Continuity
J1-25	J2-M	FL11	Continuity
J1-24	J2-N	FL12	Continuity
J1-23	J2-P	FL13	Continuity
J1-22	J2-R	FL14	Continuity
J1-21	J2-S	FL15	Continuity
J1-19	J2-U	FL16	Continuity
J1-18	J2-V	FL17	Continuity
J1-17	J2-W	FL18	Continuity
J1-16	J2-Y	FL19	Continuity
J1-15	J2-X	FL20	Continuity
J1-14	J2-Z	FL21	Continuity
J1-13	J2-a	FL22	Continuity
J1-12	J2-b	FL23	Continuity
J1-11	J2-c	FL24	Continuity
J1-10	J2-d	FL25	Continuity
J1-9	J2-e	FL26	Continuity
J1-8	J2-f	FL27	Continuity
J1-7	J2-g	FL28	Continuity
J1-6	J2-h	FL29	Continuity
J1-5	J2-j	FL30	Continuity
J1-19	J2-A	E1 (Ground)	Continuity
J1-19	Chassis	(Ground)	Continuity

Table 4-8. Voice Filter Control (A18A1) Troubleshooting Chart

Step	Test condition	Procedures	Normal indication	Remarks and further checks
1	Calibrate test set-up	a. Connect test equipment as shown in figure 4-12.a.		
		b. Set the signal generator frequency to 50 MHz ±1 MHz.		
		c. Adjust signal generator output level to obtain 0 dB reading on the power meter.		
2	Bench test, cover removed	a. Connect test equipment to UUT as shown in figure 4-13.		
		b. Check the reading on the power meter.	Insertion loss less than 0.5 dB.	If insertion loss is greater than 0.5 dB, go to step 6.

Table 4-8. Voice Filter Control (A18A1) Troubleshooting Chart - Continued

Step	Test condition	Procedures	Normal indication	Remarks and further checks
3	Same as for step 2	a. Connect PS1 between FL1-1 (+) and E1 (-)		
		b. Switch on PS1 and adjust output voltage to 28 ± 2 VDC.		
		c. Connect PS2 between FL2-1 (+) and E1 (-).		
		d. Set PS2 output voltage control to mimimum and switch on PS2.		
		e. Increase PS2 output voltage to operate switches	S1 and S2 operate	If S1 and S2 do not operate - go to step 8.
		f. Note the voltage indicated on PS2 when the switches operate.	2.4 - 5.0 VDC	

Table 4-8. Voice Filter Control (A18A1) Troubleshooting Chart - Continued

Step	Test condition	Procedures	Normal indication	Remarks and further checks
4	Calibrate test set-up	a. Connect test equipment as shown in figure 4-12 (b). b. Set the signal generator frequency to 50 MHZ ± 1 MHZ. c. Adjust signal generator output level to obtain a 0 dB reading on the power meter.		
5	Bench test, cover removed	a. Connect test equipment to UUT as shown in figure 4-14.		
		b. Check the reading on the power meter.	Insertion loss 0.5 dB	If insertion loss is greater than 0.5 dB, do steps 6 and 7.

Table 4-8. Voice Filter Control (A18A1) Troubleshooting Chart - Continued

Step	Test condition	Procedures	Normal indication	Remarks and further checks
6	Calibrate test set-up and check individual switches.	a. Connect test equipment as shown in figure 4-12.a. b. Set signal generator frequency to 50 MHZ ± 1 MHZ. c. Adjust signal generator output to obtain a 0 dB reading on the power meter. d. Check the insertion loss of S1 and S2 in turn as follows: (1) Disconnect W1/W2 from the IN port on the switch (S1/S2) (2) Connect cable W (A) from signal generator to IN on the switch. (3) Disconnect W5P1 from the 1 port on the switch.		

Table 4-8. Voice Filter Control (A18A1) Troubleshooting Chart - Continued

Step	Test condition	Procedures	Normal indication	Remarks and further checks
6		d. Continued (4) Use cable W(C) to connect the the power meter to port 1.		
		(5) Check the reading on the power meter.	Insertion loss 0.2 dB	If abnormal reading, replace faulty switch. If normal readings for both switches check cables and connectors - step 9.
7	Check switches for insertion loss.	a. Connect power supplies to UUT as shown in figure 4-14.		
		b. Adjust PS1 for 28 ± 1 VDC.		
		c. Adjust PS2 output until switch operates	Switches operate when PS2 output voltage is between 2.4 and 5.0 V.	
		d. Check insertion loss of each switch in operated position as follows:		
		(1) Disconnect S1/W2 from IN port on the switch. (S1/S2)		

Table 4-8. Voice Filter Control (A18A1) Troubleshooting Chart - Continued

Step	Test condition	Procedures	Normal indication	Remarks and further checks
7		d. Continued (2) Connect the cable from the signal generator to the IN port on the switch.		
		(3) Disconnect W3/W4 from port 2 on the switch.		
		(4) Connect the power sensor to port 2.		
		(5) Check the reading on the power meter.	Insertion loss 0.2 db	If abnormal indication, replace faulty switch. If normal reading for both S1 and S2, check cables and connectors, step 9.
8	Bench test, cover removed.	a. Disconnect all test equipment.		
		b. Using a multimeter, check the wiring for continuity		Refer to FO-11 Repair faulty wiring. Replace faulty components as necessary.
9	Bench test, cover removed	Using a multimeter, check the coaxial cables for short or open circuit.		Refer to table 4-9. Replace faulty cables.

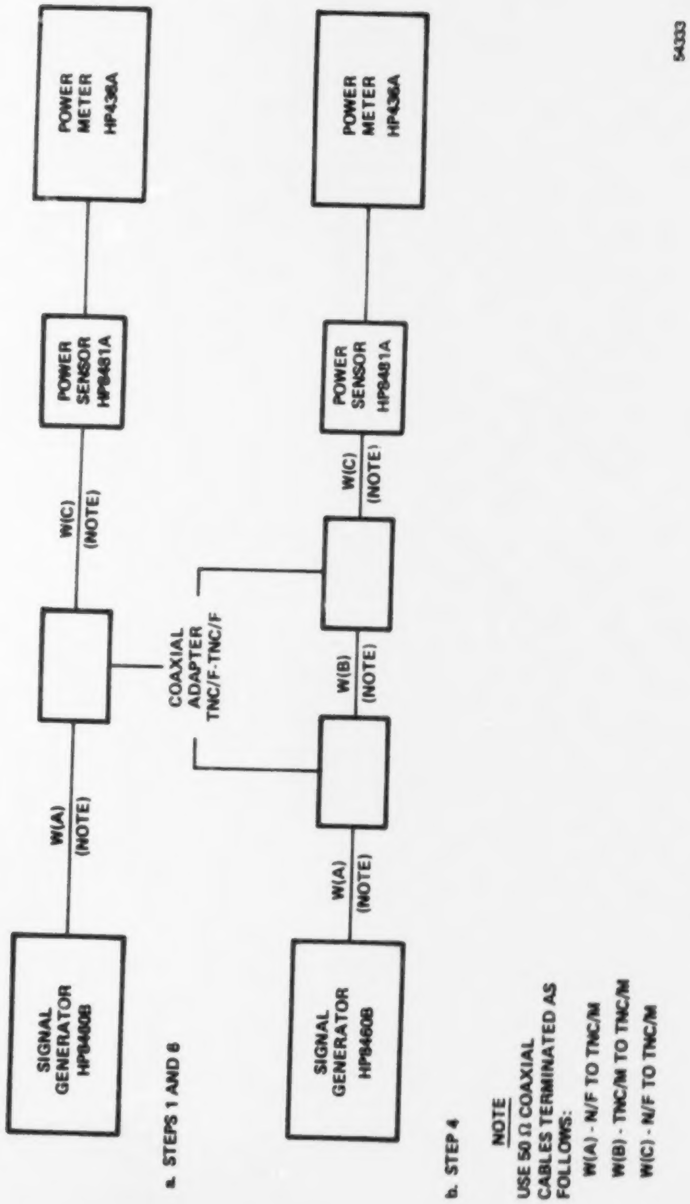


Figure 4-12. Calibration Test Set-Up

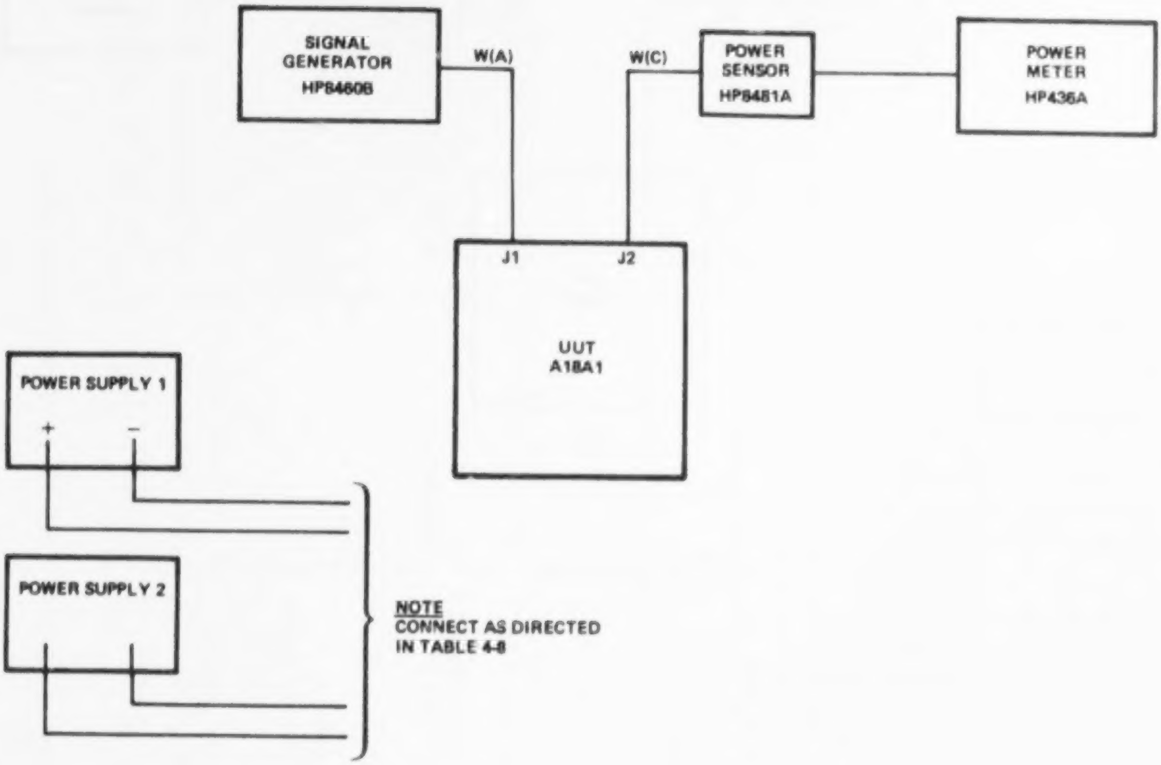


Figure 4-13. Voice Filter Control, Test Set-up Diagram (Step 2)

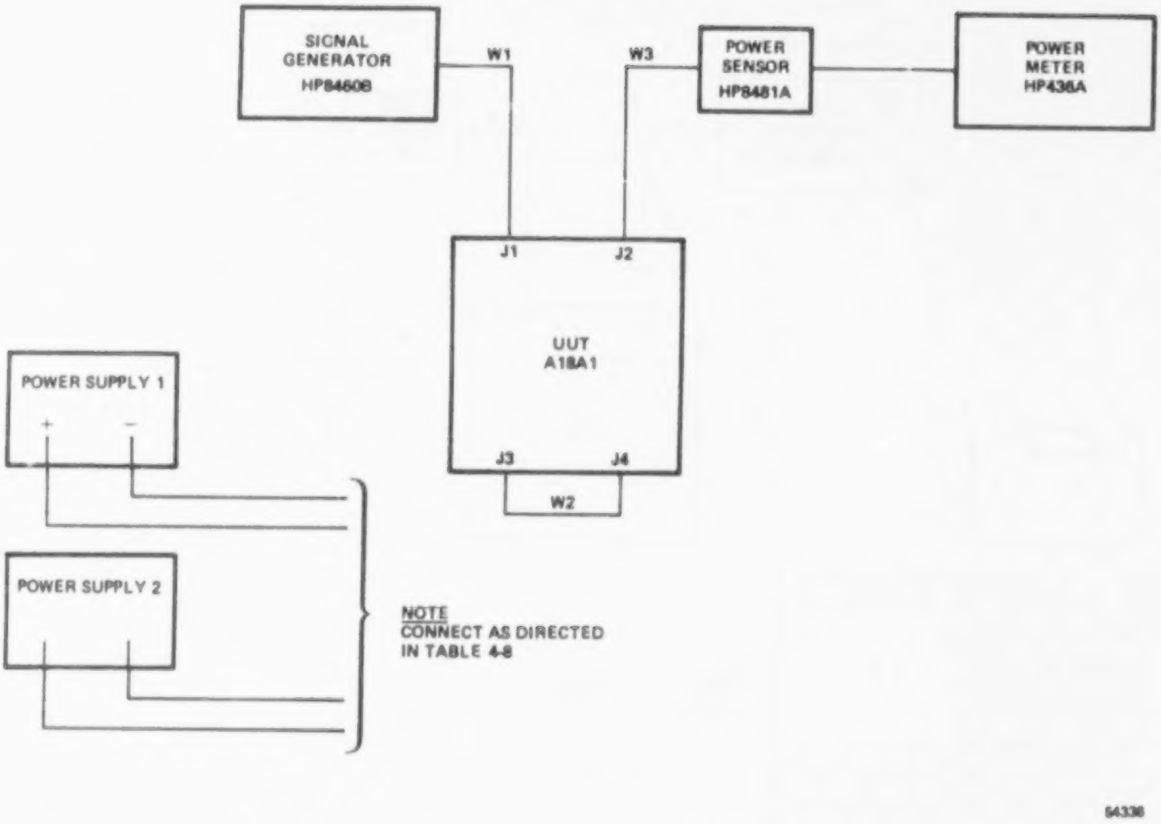


Figure 4-14. Voice Filter Control, Test Set-up Diagram (Step 5)

Table 4-9. Voice Filter Switch Wire List

Ref des	To
W1P1	S1-IN
W2P1	S2-IN
W3P1	S1-2
W4P1	S2-2
W5P1	S1-1
W5P2	S2-1

Table 4-10. Mast Control Switch (2A16), Troubleshooting Chart

Step	Test condition	Procedures	Normal indication	Remarks and further checks
1	Bench Test Multimeter set to ohms range.	Check continuity of wiring as described in table 4-11.	Continuity	Replace/repair damaged wiring.
2	As for step 1	Check operation of RAISE switch as follows:		
		a. Press RAISE		
		b. Check for continuity between J1-E and J1-F.	Continuity	If no continuity, replace S1.
		c. Check for continuity between J1-E and J1-H.	Open circuit	If continuity, replace S2.
3	As for step 1	Check operation of LOWER switch.		
		a. Press LOWER		
		b. Check for continuity between J1-E and J1-H.	Continuity	If no continuity, replace S2.
		c. Check for continuity between pins J1-E and J1-F.	No continuity	If continuity, replace S1.

Table 4-10. Mast Control Switch (2A16), Troubleshooting Chart - Continued

Step	Test condition	Procedures	Normal indication	Remarks and further checks
4	Connect 0-40V power supply to J1-D (+) and J1-G (-).	Check operation of M1 as follows:		
		a. Switch on power supply. Set output voltage to 20 VDC.	M1 indicator RED	Any abnormal indications replace M1.
		b. Increase output voltage to 28 VDC in 1V steps.	M1 indicator changes from RED to GREEN at 24 ±2 VDC.	

Table 4-11. Mast Control Switch (2A16), Wire List

Wire no.	From	To
1	J1-G	M1-1
2	J1-D	M1-2
3	J1-E	S1A-C
4	J1-F	S1A-NO
5	J1-H	S2A-NO
6	not used	
7	not used	
8	S1A-C	S1B-C
9	S1B-C	S2A-C
10	S2A-C	S2B-C
11	S1A-NO	S1B-NO
12	S2A-NO	S2B-NO

Table 4-12. Air Compressor Control (1A17), Troubleshooting Chart

Step	Test condition	Procedures	Normal indication	Remarks and further checks
1	Bench test. Multimeter set to ohms range.	Check continuity of wiring as shown in figure 4-15.	Continuity	Replace/repair damaged wiring.
2	As for step 1	Check operation of ON/OFF switch as follows:		
		a. Set ON/OFF switch to ON.		
		b. Check continuity between TB1-1 and TB1-2.	Continuity	If no continuity, replace switch S1.
3	As for step 1	Check operation of ON/OFF switch as follows:		
		a. Set ON/OFF switch to OFF.		
		b. Check continuity between TB1-1 and TB1-2.	No continuity	If continuity, replace S1.

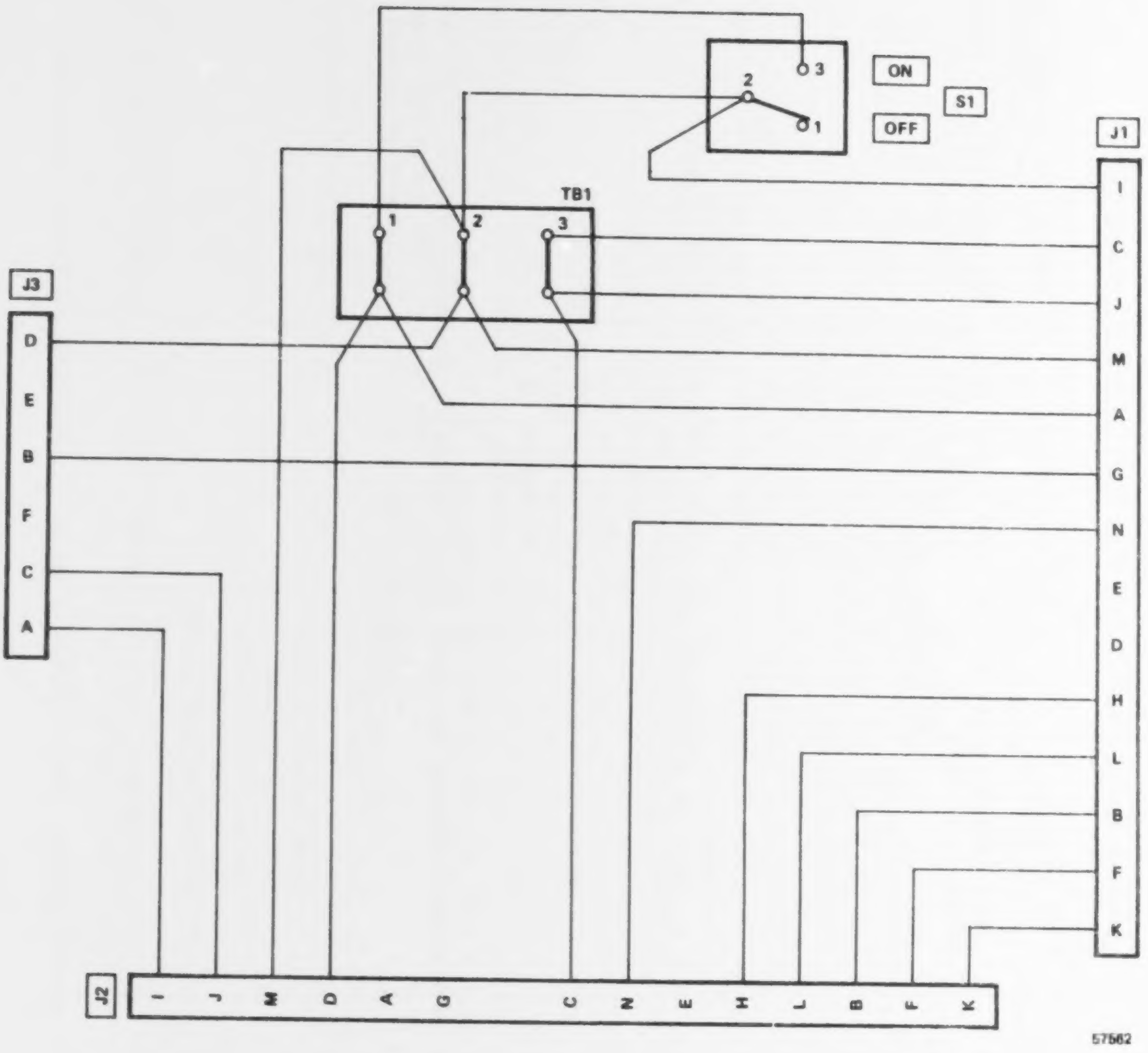


Figure 4-15. Air Compressor Control (1A17), Wiring Diagram

Table 4-13. Antenna Support Switch Assembly (A16), Troubleshooting Chart

Step	Test condition	Procedures	Normal indication	Remarks and further checks
1	Unit on Shelter. LPA resting in antenna support bracket.	Check that antenna is properly seated.	a. LPA should be resting in the support so there is no stress on the antenna positioner either in a vertical or horizontal direction.	For adjustment of antenna support bracket refer to para 4-7.6.4.
			b. Support bracket should be adjusted so that LPA moves the switch actuator lever at least 20 degrees of rotation.	Same as above.
2	Unit on shelter. LPA resting in antenna support bracket.	Visual Inspection	Antenna storage indicator light on RFCU should be lit.	If indicator light does not light, check for proper adjustment of support bracket.

Table 4-13. Antenna Support Switch Assembly (A16), Troubleshooting Chart - Continued

Step	Test condition	Procedures	Normal indication	Remarks and further checks
3	Unit on shelter.	a. Remove and retain two (2) screws securing switch access cover. Retain the access cover also.		

WARNING

To prevent injury to personnel and/or damage to equipment ensure that voltage to unit is turned off.

Step	Test condition	Procedures	Normal indication	Remarks and further checks
	Multimeter ME-303A/U	b. Set Multimeter to Ohms function, range switch to R X 10.		
		c. Press adapter lever and rotate to at least 20 degrees of rotation.	Multimeter should show continuity.	Switch that shows lack of continuity or a high amount of resistance should be replaced.

e. Loosen two (2) bolts on each rear shelter stop, and swing stops into the open position.

WARNING

Exhaust pipe is extremely hot when vehicle has been running. Use extreme care when accessing.

WARNING

A pull down step and a grab handle are located on each side of the Carrier. Always use these to mount the Carrier. Before mounting, ensure the steps are free of dirt, moisture, ice/snow. Use extra care in inclement weather. Falling from the Carrier can cause serious or fatal injury.

f. Access Shelter roof.

g. Remove pneumatic component assembly cover.

h. Disconnect cables W408 and W414 from pneumatic component assembly.

i. Re-install cover. Disconnect W410 from J3 on Air Compressor Control. Remove clamps and ensure cables are free from shelter.

j. At front curbside entry panel, open clamp securing AC power cable to shelter wall.

k. Remove and retain one (1) screw securing ground strap to shelter at front curbside.

l. On each of four (4) shelter tie-down cables, loosen nut securing upper clevis to cable tensioner. Spin the body the the cable tensioner until upper cleves is free. Upper clevis remains with shelter lifting ring.

WARNING

To avoid injury to personnel and damage to equipment, inspect com-alongs to insure they are functional and safe. Refer to TM 9-2350-247-10, Operator's Manual for XM 1015.

CAUTION

To avoid damage to equipment, do not move shelter to the rear beyond limit of safety cables.

m. Connect two (2) com-along cables to Shelter lower front lifting rings.

n. Using the com-alongs, winch the Shelter to the rear of the carrier.

o. To return shelter to normal operations:

  (1) Disconnect two (2) com-along cables from front lower lifting rings and connect to rear lower lifting rings.

  (2) Winch the shelter forward into normal position.

  (3) Reverse steps a. through e. above.

4-5.2 Inspection. Inspect components of the system as follows:

a. Check for accumulation of dust and grease, and damaged paint work.

b. Check that components are securely mounted and undamaged. When components are damaged and/or cannot be secured, or when the components cannot function because of damage, refer to maintenance procedures.

c. Check the cables and connections. Look for cracking, chafing, and excessive strain. Ensure connectors are clean and undamaged.

d. Check liquid coolant hoses and air hoses for leaks.

4-5.3 Cleaning. The exterior of an equipment should be free of dirt, dust, grease, moisture, fungus, rust and corrosion. Clean as follows:

WARNING

Adequate ventilation should be provided while using TRICHLOROTRIFLUOROETHANE. Prolonged breathing of vapor should be avoided. The solvent should not be used near heat or open flame; the products of decomposition are toxic and irritating. Since TRICHLOROTRIFLUOROETHANE dissovles natural oils, prolonged contact with skin should be avoided. When necessary, use gloves which the solvent cannot penetrate. If the solvent is taken internally, consult a physician immediately.

a. Remove dust, dirt, and moisture with a clean soft cloth.

b. Remove grease, fungus and ground-in dirt from equipment covers using a dampened (but not wet) cloth.

c. Remove dust and dirt from plugs and jacks with a brush.

CAUTION

To avoid breakage, do not press against the glass face of meters when cleaning.

d. Clean front panels, meters, and control knobs using a soft clean cloth. If dirt is difficult to remove, dampen the cloth with water. Mild soap may be used for more effective cleaning.

e. Clean air filters.

4-5.4 Testing. Test the System using the BITE. Refer to TM 32-5865-060-10, System Operator's Manual for the BITE test procedure.

4-5.5 Repair. Repair of the system is accomplished by replacing faulty components and assemblies. Removal/Installation procedures are described in para 4-6.

4-5.5.1 Repair of Shelter (1A5). Repairs to 1A5 are described in TM 32-5410-002-24&P, Organizational, Direct Support and General Support Maintenance Manual for Shelter S-595/G.

4-5.5.1.1 Access for Repair. The manual referenced above depicts the shelter without AN/MLQ-34 equipment installed. It may be necessary to remove equipment to allow access for repair. Removal/Installation procedures for all items of installed equipment are described in this manual. Refer to the Index for the location of the appropriate procedure. When access requires the removal of the transmitter or equipment racks, contact General Support.

4-6. **REMOVAL AND INSTALLATION PROCEDURES.** Removal and installation procedures for units and assemblies of the system are provided in the following subparagraphs. Detailed step-by-step instructions are given for removal. Unless otherwise specified, installation is accomplished by reversing the removal procedure.

WARNING

Before doing any work on the shelter roof, ensure all Transmitters are switched off. HIGH POWER RF radiation can cause serious or fatal burns; both internal and external. Contact with antenna radiating elements can cause severe or fatal electric shock.

WARNING

When working on the shelter roof, or other elevated structure, ensure that the area beneath the work is kept clear of personnel not involved with the task. Dropped tools or equipment can cause serious injury.

NOTE

Unless otherwise specified the torque requirements for threaded fasteners are described in table 4-14.

Table 4-14. Torque Requirements for Threaded Fasteners

Thread size	Torque IN/LB (0.5 IN/LB)
4-40	8
6-32	13
8-32	21
10-32	23
1/4-20	51
5/16-18	70
3/8-16	131
1/2-13	300

4-6.1 Data Link Functional Group. This paragraph details the procedures for removal of units which form the Data Link Group. Unless otherwise specified, the units are installed by reversing the removal procedure.

4-6.1.1 Coupler-Detector (1A22A1), Removal and Installation. To remove the Coupler-Detector from its installed position, perform the following steps:

a. Remove primary power from the rack by opening the COMM circuit breaker on the Power Distribution Panel.

b. Open the rack door and locate the main ARC-164 radio (A1) above the DLM (A4).

c. Remove A1 from the rack, refer to para 2-9.2.3.

d. Loosen the two (2) knurled knobs holding A1 mounting and pull the mounting forward.

e. Disconnect the three (3) coaxial cables connected to 1A22A1.

CAUTION

An RFI gasket is fitted to this assembly. Ensure the gasket is undamaged and seats properly, when assembly is replaced.

f. Remove and retain ten (10) screws and washers securing 1A2232 top cover.

g. Loosen the four (4) screws securing 1A22A1 to the interconnecting box.

h. Remove 1A22A1 from the rack. Retain screws and washers for reassembly.

i. To install a replacement unit, reverse steps a. through h. above.

4-6.1.2 Antenna, Data Link AS-3509/MLQ-34 (Unit 5), Removal and Installation. Removal and installation procedures for the DLA are described in the following paragraphs.

WARNING

Before doing any work on the shelter roof, ensure all Transmitters are switched off. HIGH POWER RF radiation can cause serious or fatal burns; both internal and external. Contact with the antenna radiating elements can cause severe or fatal electric shock.

a. Remove the DLA from the mast as follows:

(1) Access Shelter roof.

(2) Raise the mast manually and support at a height allowing access to the mounting bracket.

(3) Disconnect the RF cable from the connector on the center pole feed.

(4) Remove and retain the four (4) nuts and washers from the two (2) U-bolts securing the center support to the mast bracket.

(5) Remove and retain the two (2) U-bolts and retaining straps.

(6) The DLA can now be removed from the mast bracket and the mast lowered.

b. Install a replacement DLA as follows:

(1) Assemble the two (2) U-bolts and retaining straps to the DLA center support.

(2) Fit the ends of the U-bolts through the holes in the mast bracket.

(3) Fit the nuts and washers retained in para a. above to the U-bolts but do not tighten.

(4) Position the base of the DLA at a height of 5 ±0.2 ins above the Shelter roof.

(5) Tighten the four (4) nuts to secure the DLA in this position.

(6) Connect the RF cable to the connector on the center pole feed.

4-6.1.3 Interconnecting Box, Data Link (1A22A2), Removal and Installation. To remove the Interconnecting Box from its installed position, perform the following steps:

a. Open the COMM circuit breaker on the Power Distribution Panel.

b. Open rack door.

c. Remove the DLM (A4) from the rack, refer to para 2-9.2.1 for procedure.

d. Remove the main ARC-164 (A1) radio from the rack. Refer to para 2-9.2.3 for procedure.

e. Loosen two (2) knurled knobs retaining A1 mount.

f. Slide A1 mount forward.

g. Remove IN and LOAD cables from 1A22A1.

h. Slide A1 mount forward to allow access to system cables at rear of 1A22A1.

i. Disconnect system cables.

j. Withdraw A1 mount from rack.

k. Disconnect the four (4) monitor cables from the front of the assembly. Refer to table 4-15.

l. Disconnect all system cables from the rear of the assembly.

m. Remove and retain the four (4) screws securing the assembly to the underside of the ARC-164 mounting base.

n. Remove 1A22A1. Refer to para 4-6.1.1.

o. To install a replacement unit, reverse steps a. through n. above.

Table 4-15. Interconnecting Box 1A22, Cable Hook-Up

Cable W No.	From	To
W2	W2P1	A2 J10
W3	W3P1	A2 J9
W4	W4P1	A2 J8
W5	W5P1	A2 J3

4-6.2 Jammer Functional Group. This paragraph details the procedures for removal of units which form the Jammer Group. Unless otherwise specified, the units are installed by reversing the removal procedure.

4-6.2.1 Heat Exchanger (Unit 7), Removal and Installation. To remove the Heat Exchanger from its installed position, perform the following steps:

a. Remove the Shelter. Refer to para 4-6.7.2.

b. Position the wrecker boom over the Carrier.

c. Remove and retain the four (4) bolts securing the Heat Exchanger to the Carrier.

d. Attach lifting sling to the wrecker boom hook.

e. Attach the lifting sling to the two (2) lifting loops and the two (2) flanges at the rear corners of the Heat Exchanger.

f. Attach guide ropes to Heat Exchanger.

g. Slide Heat Exchanger to the rear to disengage guide pins.

h. Carefully lift Heat Exchanger from the Carrier.

CAUTION

To avoid damage to Heat Exchanger skids, ensure proper storage supports are used.

CAUTION

To avoid damage to teflon coated support runners on Heat Exchanger support, ensure that runners and heat exchanger are clean and free of abrasive material.

i. To install a replacement unit, reverse steps a. through h. above.

4-6.2.2 Amplifier Control Units (ACU), A12, A13, A14, Removal and Installation. To remove an ACU from its installed position, perform the following steps:

a. Remove primary power from the rack by opening the ACU circuit breaker on the Power Distribution Panel.

b. Remove and retain the four (4) screws securing the unit to the rack.

c. Pull the unit out carefully until the slide safety lock snaps into place.

d. Disconnect all system cables. Refer to figure 4-16.

e. Remove unit from the fully extended slides by lifting straight up.

f. To install a replacement unit, reverse steps a. through e. above.

4-6.2.3 Exciter Units (A15, A16, A17), Removal and Installation. To remove an Exciter unit from its installed position, perform the following steps:

a. Remove primary power from the rack by opening the ACU circuit breaker on the Power Distribution Panel.

b. Remove and retain the four (4) screws securing the unit to the rack.

c. Pull unit out carefully until slide safety lock snaps into place.

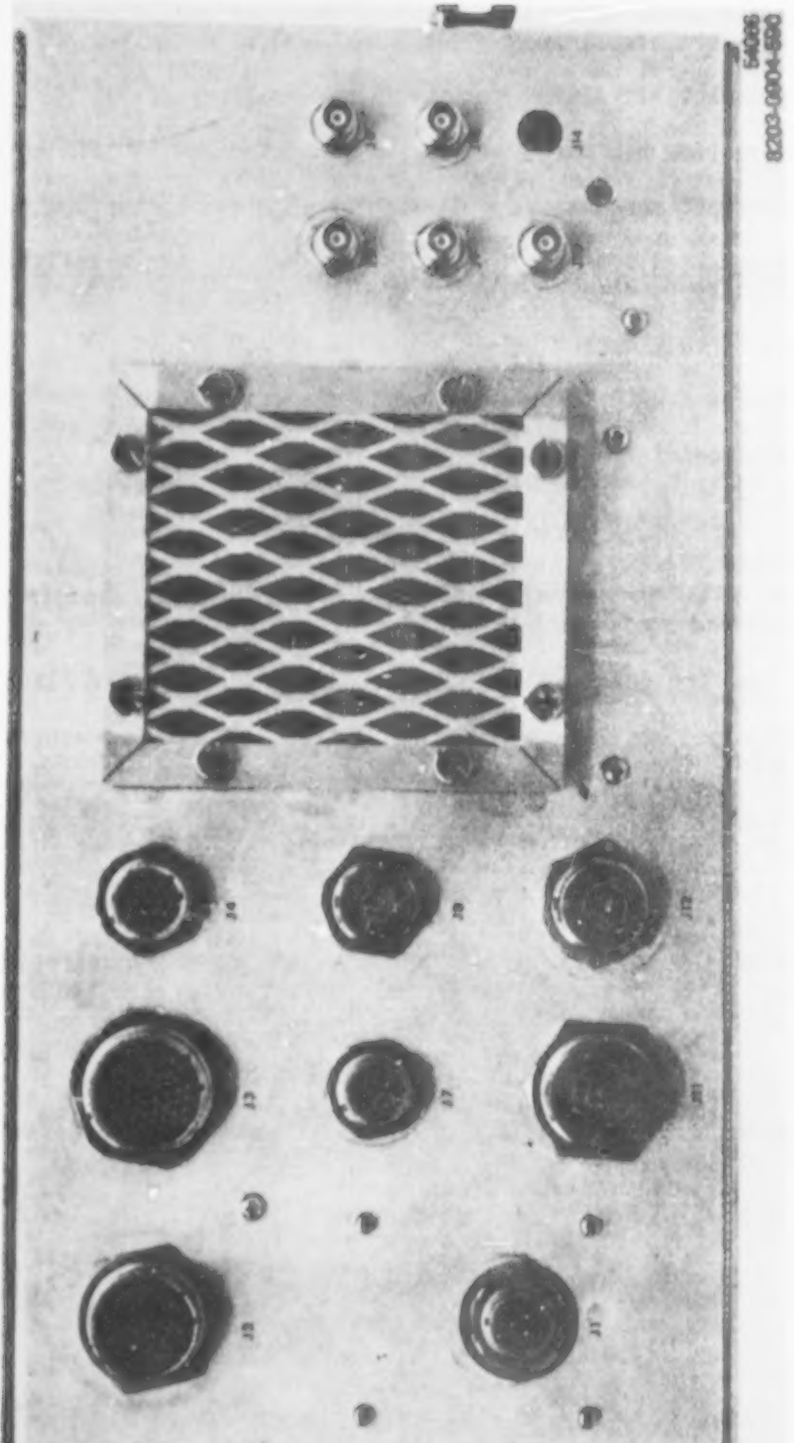


Figure 4-16. ACU, Rear Panel Connectors

d. Release slide lock safety catches and pull unit forward until rear panel connectors are accessible.

e. Disconnect all system cables. Refer to figure 4-17.

f. Remove the unit from the fully extended slides by lifting straight up.

g. To install a replacement unit, reverse steps a. through f. above.

4-6.2.4 Dummy Load Assembly (1AT1, 1AT2), Removal and Installation. To remove 1AT1 or 1AT2, perform the following steps:

a. Open circuit breakers for transmitters (XMTRs and PDP).

b. Remove and retain six (6) screws, washers and the DUMMY LOAD ACCESS panel.

c. Remove coaxial antenna cable connector.

CAUTION

To avoid damage to equipment, wrap rags around coolant connectors. This will prevent coolant from contacting and damaging surrounding wires and equipment.

d. Release the quick-release connector and disconnect coolant hose.

e. Remove and retain two (2) upper socket cap screws, washers, and dummy load bracket clamp.

f. Support unit, remove and retain two (2) lower socket cap screws and dummy load clamp.

CAUTION

System dummy load connectors are not keyed. Ensure that coolant input line is connected to the input side of the water cooled dummy load.

NOTE

Ensure RF connectors are properly mated and secure. Torque to 20-16 in lbs.

g. To install a replacement unit, reverse steps a. through f. above.

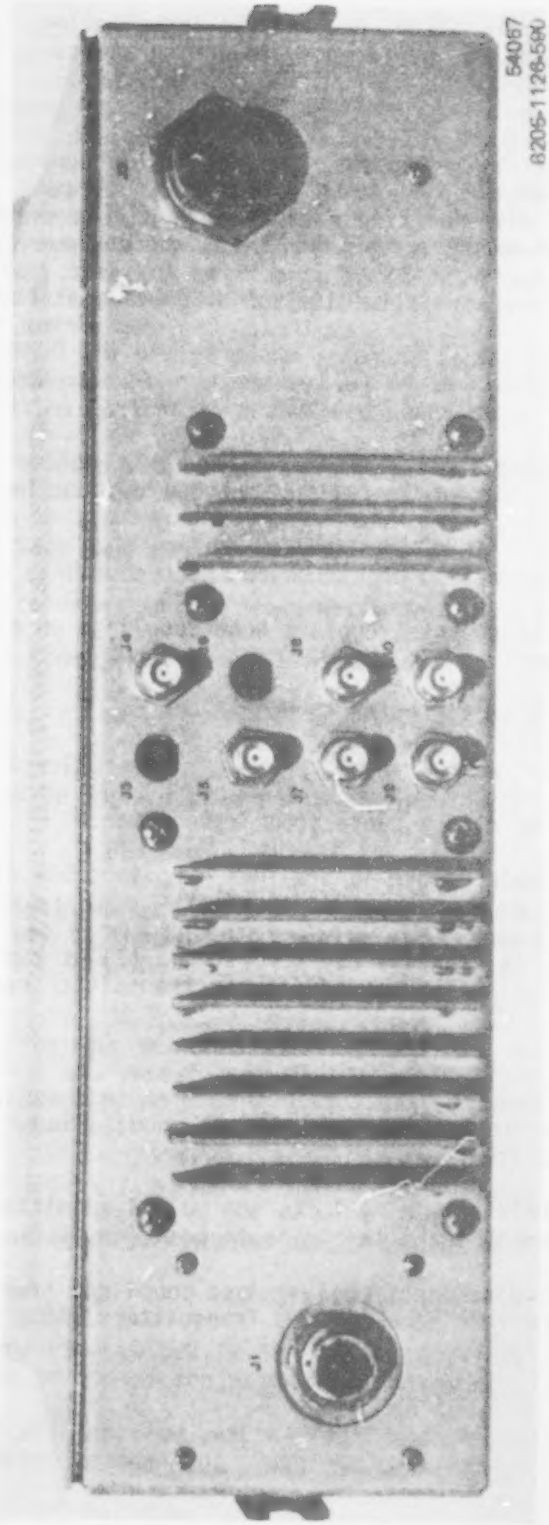


Figure 4-17. Exciter, Rear Panel Connectors

4-6.2.5 Liquid Flow Switch, S1-S3, Removal and Installation. To remove S1-S3 from their installed position, perform the following steps:

CAUTION

To avoid damage to equipment, do not allow water to leak into electrical connectors. Wrap clean rags around coolant hose connectors when disconnecting hoses. This will prevent coolant from contacting and damaging surrounding wires and equipment.

a. Open circuit breakers on all equipment on power distribution panel.

b. Remove and retain six (6) screws, washers, and the DUMMY LOAD ACCESS panel.

NOTE

To disconnect couplings, always push on the mating hose assembly towards the coupling, while pulling back on the knurled sleeve of the coupling.

c. Disconnect the quick-disconnect coolant hose couplings at the dummy loads.

d. Disconnect quick-disconnect coolant hose couplings on the outside of the shelter entry panel.

e. Remove operator's seat. Refer to para 2-9.7.1.

f. Access the rear of each Transmitter in turn as follows.

   (1) Disconnect RF output cable from Transmitter.

   (2) Secure RF cable remove in previous step in cable clamps above transmitter rack.

   (3) Loosen four (4) captive cap screws, two (2) at top and two (2) at bottom, securing Transmitter to the transmitter rack.

NOTE

Because of the lack of clearance between locking handles, the locking latches have to be tripped open in sequence; otherwise the locking latch operations interferes with each other.

   (4) Release handle retaining locks and pull Transmitter out until slide drawer assembly locks in the 'out' position.

g. Disconnect quick-disconnect coolant hose couplings from all inlet manifold connectors on the rear panel of the Transmitters (A35, A36, and A37).

WARNING

Coolant pressure is 75 to 85 PSI. To avoid possible injury to personnel and/or damage to the equipment, ensure pipe plug is removed very carefully.

CAUTION

To avoid coolant spillage on floor of shelter, ensure that some means is available to capture the coolant as it drains from the shelter coolant inlet manifold.

h. Carefully loosen pipe plug at the bottom of the shelter coolant inlet manifold and allow coolant to drain (see warning and caution notes above).

i. Pull ACU out from equipment rack one (1) and disconnect the faulty flow switch cable at the rear of ACU.

j. Locate faulty flow switch.

k. Remove bonnet securing faulty flow switch in bronze valve body.

l. Carefully pull flow switch from valve body.

m. Remove and discard faulty pressure flow switch.

n. New flow switch and cable assembly (W159S1, W172S1, or W184S1, as applicable) may be installed as follows:

CAUTION

To secure a tight seal and a trouble free installation, put a light film of motor oil on the "O" ring sealing gasket on the flow switch.

CAUTION

Before installing the new flow switch into the valve body, inspect the open orifice and remove any visible debris, sediment or abrasive material from the opening with a soft cloth. Do not use any abrasive materials.

(1) Carefully insert flow switch into valve body.

(2) Tighten bonnet securing flow switch in the valve body.

NOTE

When installing flow switch tubing behind rack one (1), ensure that tubing is lying on top of the other bundles and not intertwining.

(3) Push EMI cable of flow switch around back of rack one (1) and connect the connector to the ACU. Push ACU back into rack and secure.

(4) Reverse steps a. through m. above.

4-6.3 Receiving and Display Functional Group. This paragraph details the procedures for removal of units which form the Receiving and Display Group. Unless otherwise specified, the units are installed by reversing the removal procedure.

4-6.3.1 Signal Interface Control Unit (A20), Removal and Installation. To remove the SICU from its installed position, perform the following steps:

a. Remove primary power from the rack by opening the RCVR circuit breaker on the Power Distribution Panel.

b. Remove and retain the four (4) screws securing the unit to the rack.

c. Pull the unit forward on its slides far enough to allow access to the rear panel connectors.

d. Disconnect all system cables. Refer to figure 4-18.

e. Release the catches securing the runners to the slides at each side of the unit.

f. Supporting the unit, slide the runners towards the rear until they disengage.

g. Remove the unit from the rack.

h. To install a replacement unit, reverse steps a. through g. above.

4-6.3.2 RF Control Unit (A21), Removal and Installation. To remove the RFCU from its installed position, perform the following steps:

a. Remove primary power from the rack by opening the RCVR circuit breaker on the Power Distribution Panel.

b. Remove and retain the four (4) screws securing the unit to the rack.

c. Pull the unit forward on its side until the latches engage, allow access to the rear panel connectors.

d. Disconnect all system cables. Refer to figure 4-19.

e. Release the latches securing the runners to the slides at each side of the unit.

f. Remove the unit from the rack.

g. To install a replacement unit, reverse the procedure detailed in paras a. through f. above.

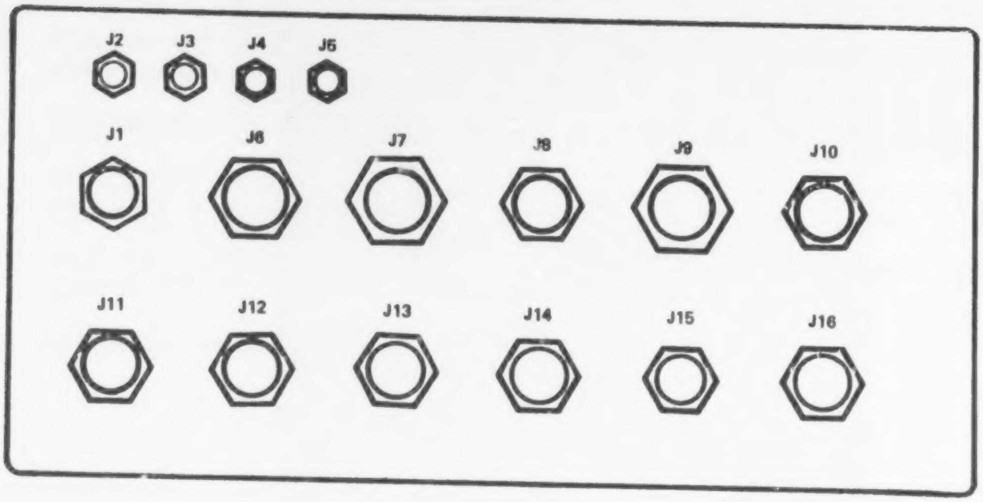


Figure 4-18. SICU, Rear Panel Connectors

4-6.3.3 Receiver Set (A25), Removal. To remove the Receiver Set from its installed position, perform the following steps:

WARNING

The Receiver Set weighs approximately 100 pounds or 65 pounds with the four (4) plug-in receivers removed. Two (2) persons are required to remove and install the Receiver Set as described. An attempt to carry out the procedures alone could cause injury to personnel and damage to the equipment.

a. Remove primary power from the rack by opening the RCVR circuit breaker on the Power Distribution Panel.

b. Release the four (4) captive screws at the top of the front panel which secure the filter frame. Lower the frame.

c. Release the two (2) captive screws securing installed Receiver A1.

d. Grasp the carrying handle of A1 and pull gently forward to unplug the assembly.

e. Remove A1 from the Receiver Set and store.

f. Repeat steps c. through e. for Receivers A2, A3, and A4.

g. Replace and secure the filter frame.

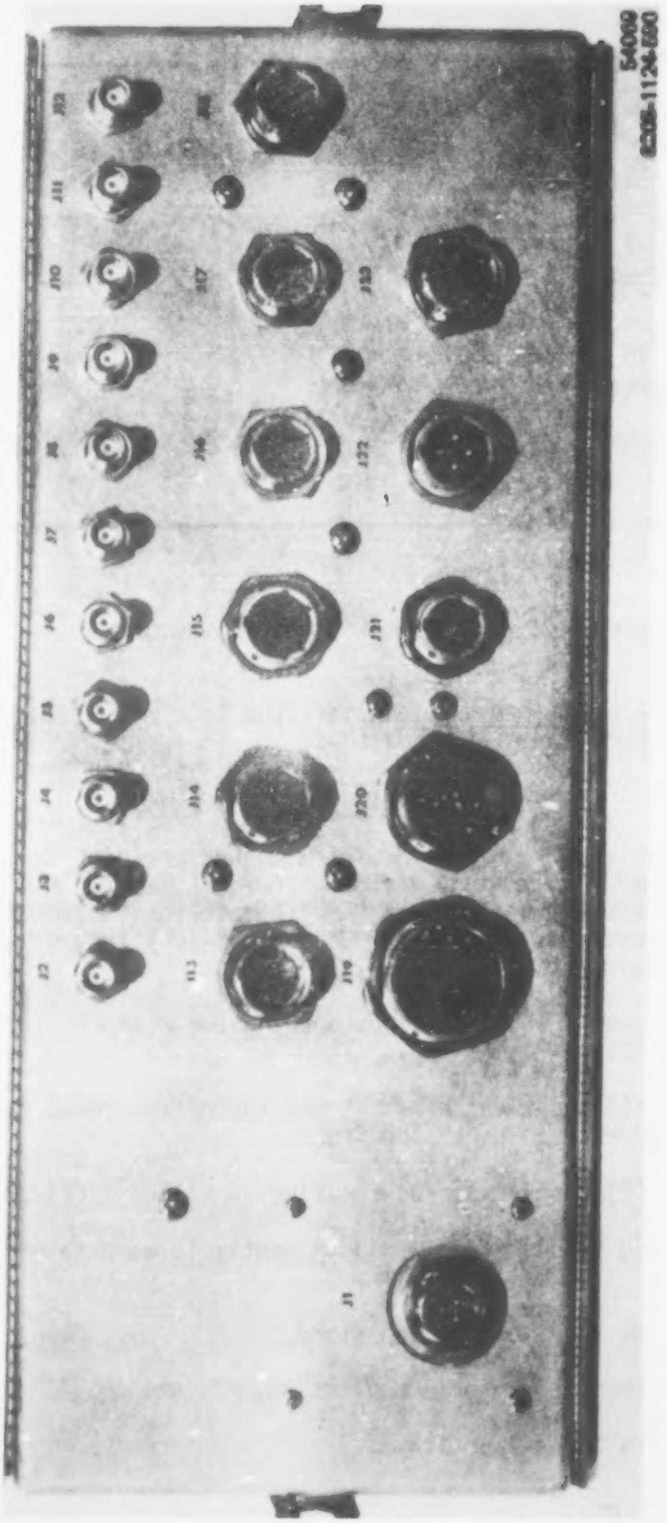


Figure 4-19. RFCU, Rear Panel Connectors

h. **Remove and retain the eight** (8) screws securing the unit in the rack.

i. **Withdraw the unit** on its runners far enough to allow access to the rear **panel connectors.**

j. **Disconnect all** system cables from the Receiver Set. Refer to figure 4-20.

k. **Release the catches** securing the slides to the rack runners at each side of **the unit.**

l. **With one (1)** person at each side supporting the unit, slide both runners **towards the rear** until they disengage.

m. **Remove the unit** from the rack.

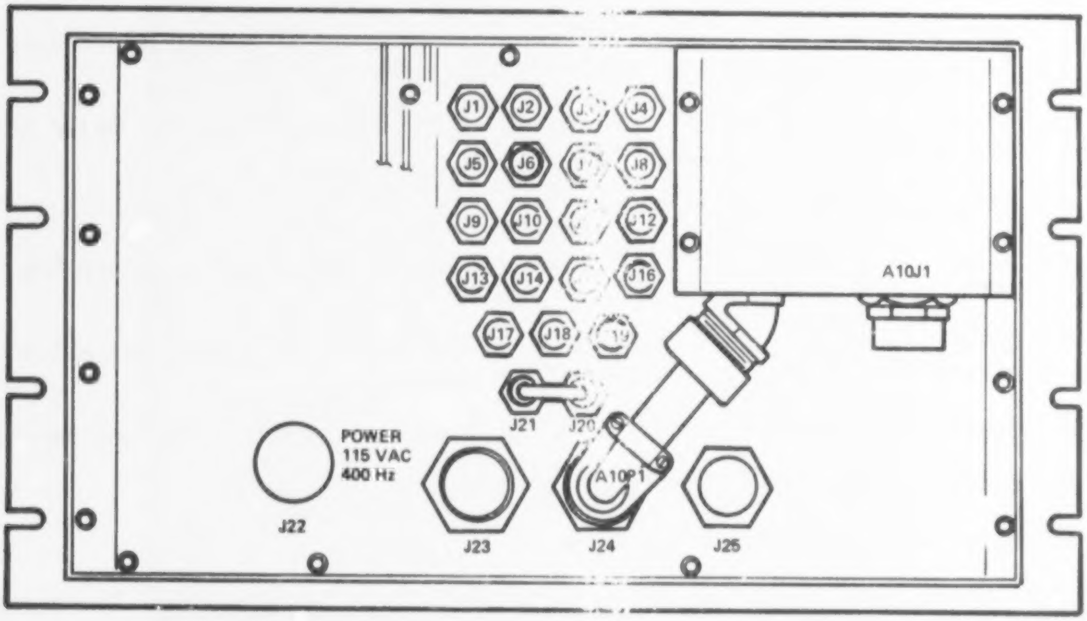


Figure 4-20. Receiver Set, Rear Panel Connectors

4-6.3.4 Installation of Receiver Set. To install a replacement Receiver Set perform the following steps:

CAUTION

Cover plates, provided in the Maintenance Kit, must be fitted over the vacant slots when the Receiver Set is operated with less than four (4) Receivers installed. The plates ensure the proper distribution of cooling air within the unit. Loss of cooling air flow can result in serious damage to the equipment.

NOTE

Transfer shorting plug, (connected to J25), and cable W143, (connected between J20 and J21) to replacement unit.

a. Ensure power to the equipment rack is off by opening the RCVR circuit breaker on the Power Distribution Panel.

b. With one (1) person at each side supporting the unit, engage the runners. Slide both runners forward until catches lock.

c. Connect all system cables. Ensure all connections are secure. Refer to figure 4-20.

d. Slide unit into equipment rack.

e. Using the eight (8) screws retained in para 4-6.3.3 step h., secure the unit.

f. Release the four (4) captive screws at the top of the front panel which secure the filter frame. Lower the frame.

g. Gently plug in the four (4) Receiver, removed in para 4-6.3.3, and secure.

h. Ensure a clean filter is fitted and correctly positioned.

i. Raise and secure the filter frame.

4-6.3.5 Signal Data Processing Unit (A23), Removal and Installation. To remove the RSPU from its installed position, perform the following steps:

a. Remove primary power from the rack by opening the RCVR circuit breaker on the Power Distribution Panel.

b. Remove and retain the four (4) screws securing the unit to the rack.

c. Pull the unit forward on its slides far enough to allow access to the rear panel connectors.

d. Disconnect all system cables. Refer to figure 4-21.

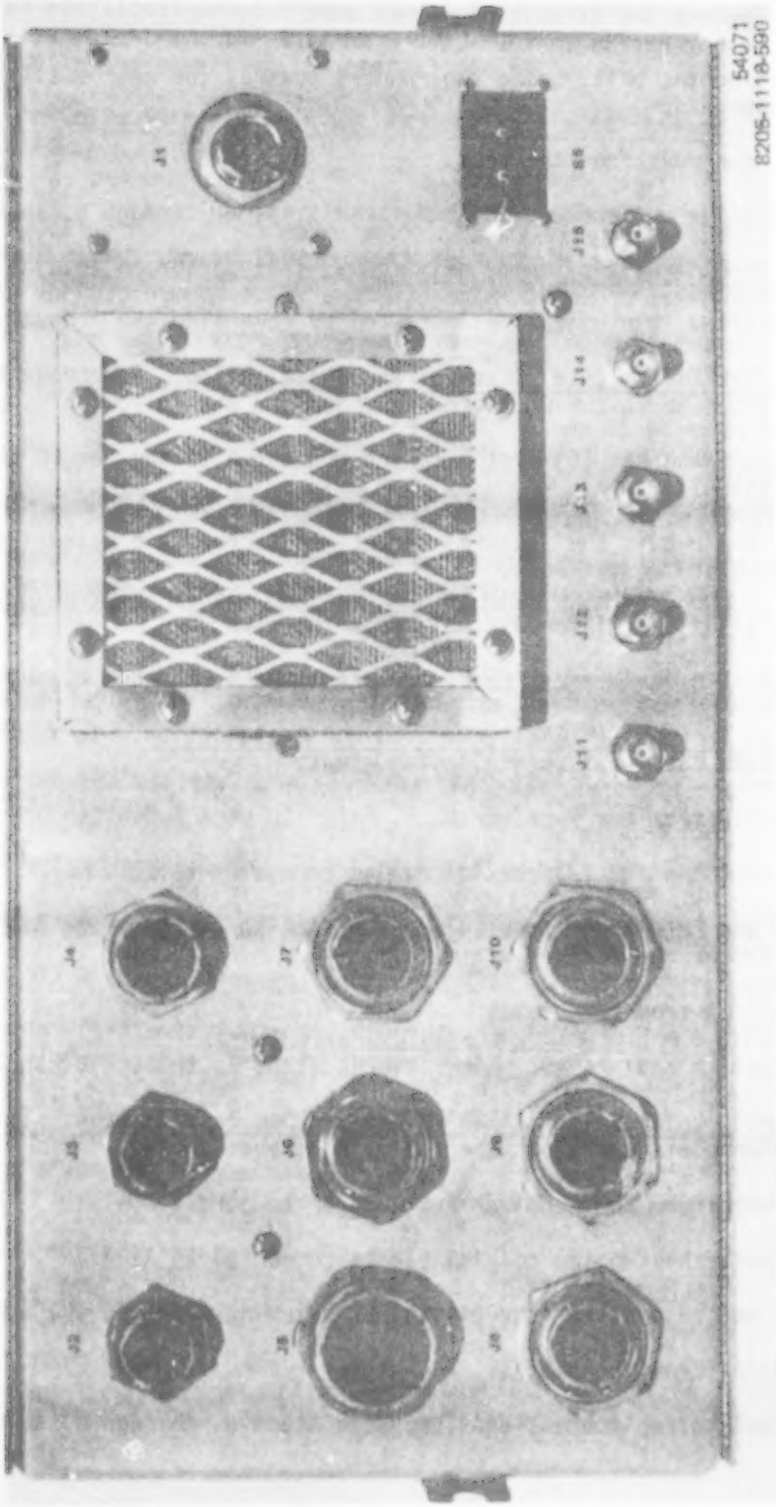


Figure 4-21. RSPU, Rear Panel Connectors

e. Release the catches securing the the runners to the slides at each side of the unit.

f. Supporting the unit, slide the runners towards the rear until they disengage.

g. Remove the unit from the rack.

h. To install a replacement unit, reverse steps a. through g. above.

4-6.4 Voice Communications Functional Group. This paragraph details the procedures for removal of units which form the Voice Communications Group. Unless otherwise specified, the units are installed by reversing the removal procedure.

4-6.4.1 RCVR Set Filter (A18), Removal and Installation. To remove A18 from its installed position above the Receiver Rack, perform the following steps:

a. Disconnect the six (6) system cables connected to the Secure Voice Filter J-Box (A18A1).

b. Remove and retain the four (4) socket-head screws and washers securing the adapter plate to the rack.

c. Gently slide the filter assembly from the rack.

d. To install a replacement unit, reverse steps a. through c. above.

4-6.4.2 Filter Bandpass (A18FL1), Removal and Installation. To remove FL1 from the adapter plate carry out the following steps:

a. Remove A18 from the Receiver Rack, refer to para 4-6.4.1.

b. Disconnect the two (2) coaxial cables connected to FL1.

c. Remove and retain the four (4) countersunk screws securing A18FL1 to the underside of the adapter plate.

d. Lift A18FL1 from the plate.

e. To install a replacement unit, reverse steps a. through d. above.

4-6.4.3 Control, Voice Filter (A18A1), Removal and Installation. To remove A18A1 from the adapter plate carry out the following steps:

a. Remove A18 from the Receiver Rack, refer to para 4-6.4.1.

b. Disconnect the two (2) coaxial cables connected to A18A1.

c. Remove and retain the four (4) screws securing A18A1 to the adapter plate.

d. Lift A18A1 from the plate.

e. To install a replacement unit, reverse steps a. through d. above.

4-6.5 Antenna Functional Group. This paragraph details the procedures for removal of units which form the Antenna Group. Unless otherwise specified, the units are installed by reversing the removal procedure.

4-6.5.1 Log Periodic Antenna (Unit 4), Removal and Installation. The LPA is removed as follows:

CAUTION

To avoid damage to equipment, work on the LPA requires a minimum of four (4) persons; two (2) on Shelter roof and two (2) on ground.

a. Open all circuit breakers to Transmitters on Power Distribution Panel.

b. Access shelter roof. Refer to para 2-5.1.

c. Disconnect RF coaxial cable from LPA.

d. Disconnect electrical power control cable from LPA.

e. Using handwheel, manually open LPA to access LPA retaining nuts on positioner arms.

WARNING

To avoid injury to personnel, LPA is to be handled in a way which will prevent finger-pinching and striking hazards.

f. Loosen two (2) captive nuts securing LPA boom clamps to positioner arms, until LPA is free.

g. Remove antenna assembly.

h. Carefully lower LPA to personnel on ground.

i. To install a replacement unit, reverse steps a. through h. above.

4-6.5.2 Antenna Positioner (Unit 3), Removal and Installation. To remove Unit 3 from its installed position, perform the following steps:

CAUTION

To avoid damage to equipment, work on Antenna Positioner requires four (4) persons; two (2) on Shelter roof and two (2) on ground.

a. Open all circuit breakers to Transmitters on Power Distribution Panel.

b. Access the roof of the Shelter. Refer to para 2-5.1.

c. Remove LPA. Refer to para 4-6.5.1.

d. Disconnect and retain power and control cables from positioner.

e. Disconnect stress-relief cable from positioner.

f. Remove T-bolt from positioner retaining clamp.

g. Remove positioner by lifting positioner upward.

h. To install a replacement unit, reverse steps a. through g. above.

4-6.5.3 Log Periodic Antenna Mast, (A7), Removal and Installation. To remove A7 from its installed position, perform the following steps:

a. Access the shelter roof. Refer to para 2-5.1.

b. Remove LPA. Refer to para 4-6.5.1.

c. Remove positioner. Refer to para 4-6.5.2.

d. Remove and retain four (4) bolts, nuts, and washers securing the two (2) electrical gasket shields together.

e. Remove and retain one (1) bolt, two (2) socket head screws and associated washers from each of the four (4) angle brackets securing the two (2) electrical gasket shields to the Mast.

f. Remove and retain ten (10) bolts and washers securing the two (2) electrical gasket shields to the Shelter.

g. Remove and retain two (2) electrical gasket shields.

h. Remove and retain the mast weather sealing "O" ring gasket.

i. Remove and retain the weather shielding window gasket.

CAUTION

EMI gaskets are fitted between the Mast and the Shelter. Ensure the gasket is undamaged and seals properly, when assembly is replaced.

j. Remove, retain, and inspect EMI gasket. Replace as required.

WARNING

To avoid injury to personnel and/or damage to equipment, ensure sling is in operating condition.

k. Attach lifting sling to lifting device.

l. Attach lifting sling to mast.

m. Dismount from Shelter roof.

n. Remove and retain six (6) screws, washers, and DUMMY LOAD ACCESS panel.

o. Disconnect air hose from base of mast.

p. Remove and retain four (4) socket head bolts securing base of mast to shelter.

CAUTION

To avoid damage to equipment and/or cables, carefully guide the base of the mast through the cable well and other obstructions in the Shelter.

q. Carefully lift the Mast from its place in the Shelter.

r. Replacement Mast is installed as follows:

(1) When lowering into place, ensure that base of mast is properly oriented.

(2) Reverse steps a. through q. above.

4-6.5.4 Pneumatic Component Assembly (A8), Removal and Installation. To remove A8 from its installed position, perform the following steps:

CAUTION

To avoid damage to equipment, work on the Pneumatic Component Assembly requires two persons and a lifting device.

a. Access the Shelter roof. Refer to para 2-5.1.

b. Remove the cover to Pneumatic Component Assembly and retain in safe place.

c. Disconnect power and control cables from J1 and J2. Remove cable clamps as necessary.

d. Drain Pressure Tank.

e. Disconnect air hoses from compressor to Shelter.

f. Remove and retain the six (6) bolts securing the mounting plate to the Shelter.

WARNING

To avoid injury to personnel and/or damage to equipment, ensure sling is in operating condition.

g. Attach lifting sling to wrecker truck.

h. Attach lifting sling to eye-bolts on the Pneumatic Component Assembly.

i. Remove the Pneumatic Component Assembly.

j. Remove and retain four (4) bolts and washers securing the Pneumatic Component Assembly shock mounts to the mounting plate.

k. Replace assembly cover.

WARNING

A Pneumatic Component Assembly not set for operation with AN/MLQ-34 will cause the mast to retract if DC power is removed. This may cause injury to personnel and damage to the equipment.

l. To install a replacement assembly, proceed as follows:

(1) Remove cover of new assembly and check that it is set for operation with AN/MLQ-34. Refer to TM 11-5985-365-24.

(2) Position assembly on mounting plate with shock mount holes and holes in mounting plate aligned properly. Secure with hardware retained step j. above.

(3) Reverse steps a. through j. above.

4-6.5.5. Pressure Tank (A9), Removal and Installation. To remove A9 from its installed position, perform the following steps:

a. Drain Pressure Tank.

b. Remove all air hose connections.

WARNING

The pressure tank weighs 85 pounds. To avoid possible injury to personnel, and/or damage to equipment, three (3) persons are required to handle the unit.

c. Support tank and remove and retain four (4) bolts and washers securing tank to front panel of shelter.

d. To install replacement tank, the procedure is as follows:

(1) Support tank and align holes of tank brackets with those of shelter panel.

(2) Reverse steps a. through c. above.

4-6.5.6 Antenna Support Bracket Assembly (1A16), Removal and Installation. To remove 1A16 from its installed position, perform the following steps:

a. Switch S4 is removed as follows:

(1) Access the shelter roof. Refer to para 2-5.1.

(2) Disconnect LPA from positioner (refer to para 4-6.5.1). Place LPA out of work area (do not remove LPA from Shelter roof).

(3) Loosen retaining socket cap screw on switch actuator adapter lever.

(4) Remove and retain adapter lever.

(5) Loosen and remove strain relief bushing.

(6) Remove and retain two (2) screws securing switch access cover to the switch chassis.

(7) Remove and retain access cover.

(8) Label and disconnect control wires.

(9) Carefully withdraw control wires from switch assembly.

(10) Remove and retain strain relief bushing adapter secured in the switch assembly.

(11) Remove and retain two (2) socket cap screws securing switch assembly to the adjustable antenna support bracket. Remove switch assembly.

(12) To install replacement switch:

(a) Remove two (2) screws securing access cover to switch chassis.

(b) Reverse steps (1) through (11) above.

b. Adjustable antenna support bracket is removed as follows:

(1) Remove and retain two (2) socket cap screws and washers securing switch (S4) to adjustable antenna support bracket.

(2) Remove and retain four (4) socket cap screws and washers securing adjustable antenna support bracket to antenna base support. Remove adjustable support bracket.

(3) Install a replacement unit by reversing steps (1) through (2) above.

c. Antenna base support base bracket is removed as follows:

(1) Remove and retain S4 and adjustable support bracket. Refer to paragraphs a. and b. above.

(2) Remove and retain control cable clamp; cap screw, nut and washers securing clamp and cable to antenna base support.

(3) Remove and retain four (4) cap screws and washers securing antenna base support to the shelter. Remove the antenna base support.

(4) To install a replacement unit, reverse steps of paragraph (1) through (3) above.

4-6.5.7 Antenna Shroud (A6), Removal and Installation. A6 is repaired by replacing damaged sections. Sections of the antenna shroud may be removed as follows:

a. Access Shelter roof. Refer to para 2-5.1.

WARNING

To avoid possible injury to personnel and/or damage to equipment, these procedures require two (2) persons.

b. Front end support strut is removed as follows:

(1) Support front end support strut and remove and retain four (4) bolts, self-locking nuts, and washers securing ends of struts to front end shroud rail.

(2) Remove one (1) bolt, self-locking nut, and washer securing strut support to strut support bracket.

(3) Remove and retain strut support.

(4) Inspect strut support. Replace as required.

(5) Support strut may be installed by reversing steps (1) through (3) above.

c. Front shroud rail may be removed as follows:

(1) Remove front strut support. Refer to para a. above.

(2) Support front end shroud rail and remove and retain four (4) bolts, washers, and self-locking nuts securing the front end shroud rail to the two (2) front shroud bracket supports.

(3) Remove and retain front shroud rail.

(4) Inspect front shroud rail. Replace as required.

(5) To install front end shroud rail, reverse steps (1) through (3) above.

d. Front end curbside and/or roadside shroud rail bracket(s) may be removed as follows:

(1) Remove front end support strut. Refer to para b. above.

(2) Remove front end shroud rail. Refer to para b. above.

(3) Remove and retain eight (8) bolts and washers securing the brackets to the shelter corners.

(4) Remove and retain four (4) bolts, self-locking nuts, and washers securing front shroud support brackets to side shroud rails.

(5) Remove and retain front end shroud support brackets.

(6) Inspect front end shroud bracket(s). Replace as required.

(7) To install shroud brackets, reverse steps (1) through (5) above.

e. Remove rear shroud rail support bracket(s), curbside and/or roadside, as follows:

(1) Remove and retain four (4) bolts, self-locking nuts, and washers securing rear support brackets to side shroud rails.

(2) Remove and retain eight (8) bolts and washers securing shroud rail support brackets to rear shelter wall.

(3) Remove and retain shroud support brackets and rear shroud rail cross piece.

(4) Remove and retain two (2) bolts, self-locking nuts, and washers securing brackets to rear shroud rail cross piece.

(5) Inspect shroud rail support bracket(s). Replace as required.

(6) To install brackets, reverse steps (1) through (4) above.

f. Remove rear shroud rail cross piece as follows:

(1) Remove and retain rear shroud rail support brackets. Refer to para e. above.

(2) Inspect rear shroud rail cross piece. Replace as required.

(3) To install rear shroud rail cross piece, reverse step (1) above.

g. Remove side shroud rail as follows:

(1) Remove and retain rear end shroud rail bracket supports. Refer to para d. above.

(2) Remove and retain two (2) bolts, self-locking nuts, and washers securing the front end of the side shroud rail to the front end support bracket.

(3) Remove and retain side shroud rail.

(4) Inspect side shroud rail. Replace as required.

(5) To install side shroud rail, reverse steps (1) through (3) above.

4-6.5.8 Filter Assembly, LPA (1A13), Removal and Installation. To remove the filter assembly from the antenna cable well, perform the following steps:

a. Remove the LPA, refer to para 4-6.5.1.

b. Disconnect cable W412 from J1 of Filter Assembly.

c. Remove and retain the eight (8) screws and washers securing the Filter Assembly to the cable well.

d. Dismount from the Shelter.

e. Remove and retain six (6) screws and washers and the DUMMY LOAD ACCESS panel.

f. Remove the cable (W195) connected to J2 on the Filter Assembly.

g. Remove and retain the jam-nut securing connector J2 to the Filter Assembly.

h. Remove and retain the eight (8) screws securing the front cover to the Filter Assembly.

i. Remove and retain the eight (8) screws securing the filter rear cover.

j. Place the connector inside the filter body and push the assembly upwards into the cable well.

k. Access the shelter roof and remove the Filter Assembly from the cable well.

l. Secure connector J2 to the front cover using the jam-nut retained in step (g) above.

m. Secure the front cover using the screws retained in (h) above.

n. Secure the rear cover using the screws retained in (i) above.

o. To install a replacement unit, reverse steps a. through n. above.

4-6.5.9 Antenna Supports, Removal and Installation. The antenna supports are removed/installed as follows:

a. Access the Shelter roof and raise the antenna to a convenient height. Refer to para 2-5.1.

b. Remove and retain the eight (8) bolts and washers attaching the support to the Shelter roof.

c. Remove and retain five (5) screws, self-locking nuts and washers attaching rubber pad to support.

d. Discard faulty component.

e. Install a replacement by reversing steps a. thru d. above.

4-6.5.10 DLA Cable Retractor, Removal and Installation. The retractor is removed/installed as follows:

a. Access the Shelter roof. Refer to para 2-5.1.

b. Remove four (4) cable clamps holding W410 to retractor cover.

c. Remove and retain thirty-seven (37) screws and washers attaching the retractor cover to the Shelter roof.

d. Inspect and replace as necessary the following items:

   (1) Rubber gasket between the roof and the retractor cover.

   (2) Rubber grommet that protects the DLA RF cable from rubbing against the retractor cover.

   (3) The pulley guide attached to the Shelter roof by eleven (11) screws and washers.

   (4) The pulley guide attached to the retractor cover by ten rivets. If the pulley guide is damaged, the retainer cover must be replaced.

e. Disconnect the pulley block from the negator motor.

f. Remove and retain six (6) screws and washers attaching the retractor to the Shelter roof.

g. Remove the retractor.

h. To install a replacement reverse steps a. thru g. above.

4-6.5.10.1 DLA RF Cable Roller Assembly, Removal and Installation. The cable roller is removed/installed as follows:

a. Access Shelter roof. Refer to para 2-5.1.

b. Remove and retain two (2) socket head bolts, self-locking nuts, and washers; one (1) per cable roller.

c. Remove and retain two (2) cable rollers to free DL RF cable.

d. Remove and retain two (2) bolts and washers attaching the Roller Assembly to the Shelter roof.

e. To install a replacement, reverse steps a. thru d. above.

4-6.5.10.2 DLA RF Cable Turn-round Assembly, Removal and Installation. The turn-round assembly is removed/installed as follows:

a. Access the Shelter roof. Refer to para 2-5.1.

b. Remove the Retractor cover, refer to para 4-6.5.10.

c. Disconnect turn-round snap from Retractor cable eye.

d. Loosen the hex screw in the turn-round guide pin.

e. Remove guide pin to free turn-round wheel from Turn-round Assembly to free DL RF cable.

f. To install a replacement, reverse steps a. thru e. above.

4-6.5.11 Cables W411 and W412, Removal and Installation. To remove/install cable W411 or W412 carry out the following steps:

a. Remove LPA, refer to para 4-6.5.1.

b. Remove Antenna Positioner, refer to para 4-6.5.2.

c. Remove seven cable support brackets from mast. Retain all hardware for reassembly.

d. Disconnect cables from connectors in cable well. Remove cables from shelter roof.

e. Remove and retain the tie-down straps securing the cables to the support brackets.

CAUTION

When fastening cable ties, take care not to cut or damage cables.

f. Unfasten the cable ties securing the two cables together and discard the faulty cable.

g. Using cable ties positioned as shown in figure 4-22, tie the replacement cable to the cable retained in step f. These ties are also used as locators. Take care to position them correctly.

NOTE

The positions of the natural color tiedowns locates the centers of the cable support brackets.

h. Position the cable support brackets on the cable assembly and secure loosely using the tiedown straps retained in step e.

i. Connect W411P2 and W412P1 to their respective connectors in the cable well on the shelter roof.

j. Coil the cable assembly counterclockwise around the mast and into the cable well.

k. Using the hardware retained in step c., secure the cable support brackets to the mast. This should be done one bracket at a time starting at the bottom mast section. Tighten tiedown straps on cable supports.

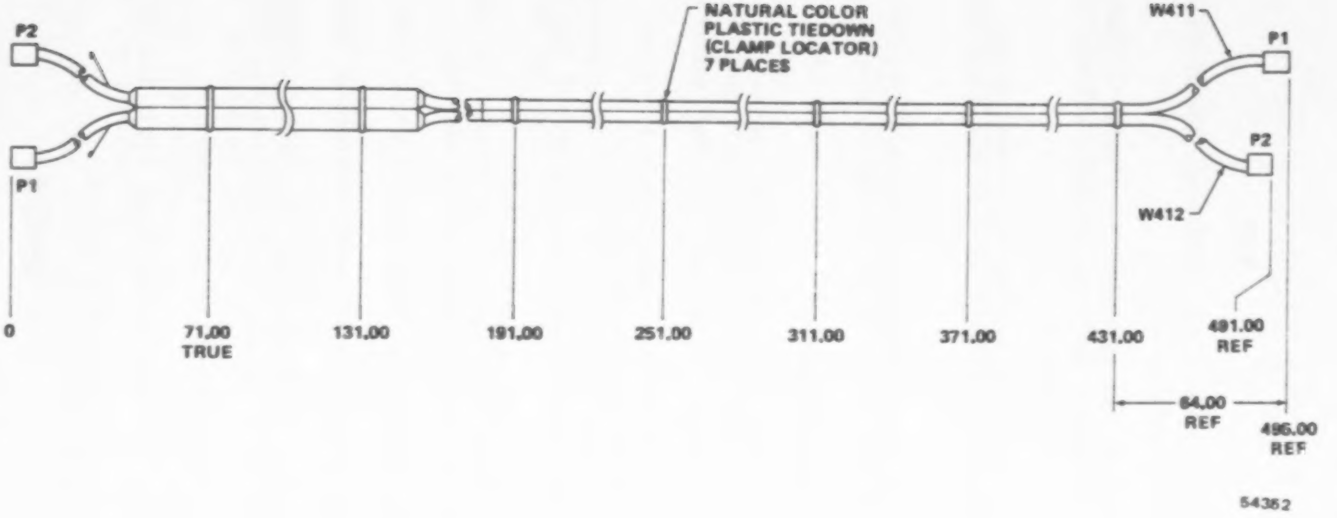


Figure 4-22. Cable Assembly (W411, W412), Positioning of Tiedowns (Clamp Locators)

l. Install Antenna Positioner, refer to para 4-6.5.2.

m. Install LPA, refer to para 4-6.5.1.

NOTE

If cable support brackets and cable ties are positioned correctly, no adjustment will be necessary.

n. Raise and then lower the mast manually, refer to para 2-5.1. Check that the cables uncoil freely and stow properly without binding, chafing or strain. Adjust if necessary.

4-6.6 Power Generation and Distribution Functional Group. This paragraph details the procedures for removal of units which form the Power Generation and Distribution Group.

4-6.6.1. AC Distribution Box (1A26), Removal and Installation. To remove 1A26 from its installed position, perform the following steps:

a. Unlock and open access panel.

b. Loosen four (4) screws securing 1A26 to cabinet.

c. Remove and retain eight (8) screws, and lock washers and one (1) cover to 1A26.

d. Label and disconnect wires from TB1.

e. Remove nut, screw, and washers securing ground lug to 1A26.

f. Replace screw, nut, and washers on 1A26.

g. Disconnect four (4) stress relief cable bushings.

h. Carefully remove wires from 1A26.

i. To install a replacement unit, reverse steps a. through h. above.

4-6.6.2 Distribution Box, AC Filter (A8, A9, A19), Removal and Installation. To remove a unit from its installed position, perform the following steps:

4-6.6.2.1. Removal. Remove the unit as follows:

a. Open all circuit breakers on the Power Distribution Panel.

b. Remove all installed units from the rack.

CAUTION

When unfastening cable ties, take care not to cut or damage cables in the harness.

c. Release all power cables from the rack cable harness.

d. Slacken the locknut securing the cable to the terminal box at the line-end of FL1.

e. Loosen the four (4) bottom screws securing the unit to the rear of the rack.

f. Remove and retain the seven (7) screws securing the unit to the rear panel of the rack.

g. Gently pull the assembly upward and forward, turning the line-end of the RFI filter to the right to clear the side of the rack.

NOTE

Movement is restricted to the extent of the service loop in the power input cable.

h. Remove and retain the six (6) screws securing the terminal cover at the line-end of FL1.

i. Label and disconnect the power input cable connections to the terminals of F1.

j. Feed the ends of the power input cable through the conduit fitting and remove the unit from the rack.

4-6.6.2.2 Installation. Install a replacement unit as follows:

a. Open all circuit breakers on Power Distribution Panel.

b. Position the unit in the rack.

c. Feed the power input cable terminals through the conduit fitting on the terminal box.

d. Connect the power input cable to the terminals of FL1 as follows:

115V 400 Hz LINE (BLACK) TO TERMINAL E1

115V 400 Hz NEUTRAL (WHITE) TO TERMINAL E2

GROUND (GREEN) TO TERMINAL E8

Ensure all connections are secure.

e. Secure the cover on the terminal box.

f. Secure the assembly to the rear panel of the rack using eleven (11) screws retained in para 4-6.6.2.1. steps e. and f.

g. Feeding the service loop in the power input cable into the conduit, stuff the conduit into the power fitting on the terminal box and tighten the locknut.

h. Place the power cables back into the rack cable harness and secure with the ties.

i. Install the units in the rack.

4-6.6.3 RFI Filter Assemblies, (FL1, FL2), Removal and Installation. FL1 and FL2 are located in the compartment below the Communications Rack. These assemblies are removed as follows:

a. Removal of wire connections at the line end and load end of FL1 and FL2 is as follows:

   (1) Open COMM and COMP circuit breakers on Power Distribution Panel.

   (2) Remove and retain six (6) screws, washers, and one (1) terminal box cover from filter.

   (3) Label stress-relief cable and wires connected inside terminal box.

   (4) Disconnect wires to filter.

   (5) Disconnect stress-relief bushing from terminal housing.

   (6) Carefully pull wires from terminal box.

   (7) Replace terminal cover, screws, and washers on terminal box.

b. To replace FL1:

   (1) Open COMM and COMP circuit breakers on Power Distribution Panel.

   (2) Remove and retain twenty-eight (28) screws, washers, and filter access panel.

   (3) Remove and retain eight (8) screws securing mounting flange of FL1 to Shelter.

   (4) Lift flange with attached filter and carefully pull assembly out until assembly is clear of compartment and other obstructions.

   (5) Disconnect wires from line and load ends of FL1. Refer to para a. above.

   (6) Remove and retain eight (8) screws, washers, and nuts and one (1) mounting flange from FL1.

   (7) To install a replacement, reverse steps (1) through (6) above.

c. To replace FL2:

   (1) Remove FL1. Refer to b(1) through b(5) above.

   (2) Remove and retain eight (8) screws securing FL2 to floor of shelter.

(3) Pull FL2 out of compartment until FL2 is clear of obstructions.

(4) Disconnect wires from line and load ends of FL2. Refer to a. above.

(5) To install replacement, reverse steps (1) through (4) above.

4-6.7 Shelter Functional Group. This paragraph details the procedures for removal of units which form the Shelter Group.

4-6.7.1 Air Conditioner (1A11), Removal and Installation. To remove 1A11 from its installed position, perform the following steps:

CAUTION

To avoid damage to equipment, work on Air Conditioner requires two (2) persons and a lifting device.

a. Open AIR COND circuit breaker on Power Distribution Panel.

b. Remove and retain rubber rain guard apron.

c. Remove and retain twelve (12) hex head bolts and washers from the bottom retaining bracket.

d. Support bottom retaining bracket, and remove and retain two (2) socket cap head bolts and washers.

e. Remove and retain bottom retaining bracket.

f. Remove and retain thirteen (13) hex head bolts and washers from edges of top retaining bracket.

CAUTION

Shims are provided between the top retaining bracket shock mounts and the Air Conditioner chassis.

g. Support the top retaining bracket.

h. Remove and retain two (2) bolts, washers, shims, and top retaining bracket from Air Conditioner.

i. Remove two (2) captive locking screws on two (2) outside drawer slides at the bottom of the Air Conditioner.

NOTE

To unlock supporting sliding drawer at the bottom of the Air Conditioner, the two (2) quick-release lock release buttons must be pressed simultaneously.

j. Press two (2) lock quick-release buttons on the mounting plate assembly and pull Air Conditioner outwards until safety locks snap into place.

k. Release support rod and insert quick-release pin into hole at the end of mounting plate.

l. Remove and retain fifty-two (52) phillips head screws, washers and Air Conditioning access panel.

m. Remove and retain phillips head screw securing retaining-guide wire to Air Conditioner chassis.

n. Disconnect the power and control cables from Air Conditioner chassis.

o. Connect lifting sling to retractable hoist rings on Air Conditioner.

p. Connect lifting sling to lifting device.

q. Remove and retain four (4) bolts and washers securing air conditioner to air conditioner mounting plate shock mounts.

r. Remove Air Conditioner.

s. To install a replacement unit, perform the following steps:

   (1) Set Air Conditioner on mounting plate.

   (2) Align holes in air conditioner chassis with holes in mounting plate shock mounts.

   (3) Reverse steps a. through q. above.

4-6.7.2 Shelter (Unit 1), Removal. To remove the shelter, perform the following steps:

a. Ensure vehicle is not running and is parked in accordance with procedures contained in TM 32-5865-060-10.

WARNING

To avoid injury to personnel and/or equipment, ensure there are no overhead obstructions which will interfere with the removal of the Shelter.

WARNING

To avoid injury to personnel, ensure that the area around/under the work is kept clear of personnel not involved with the task.

NOTE

The removal of the Shelter requires three (3) personnel minimum.

b. Open and latch the tailgate.

c. Open all circuit breakers on the Power Distribution Panel located inside the Shelter.

d. Close and secure Shelter door.

e. Loosen two (2) bolts on each rear shelter stop, and swing stops into open position.

WARNING

The exhaust pipe is extremely hot when carrier has been running. Use extreme care when accessing cables at entry panel to avoid severe burns.

CAUTION

To prevent damaging equipment, use care when climbing or moving about the Shelter.

f. Remove AS-1729/VRC whip antenna and store in a safe place.

g. On top of Shelter, remove Pneumatic Component Assembly cover. Disconnect cables W408 and W414 from Pneumatic Component Assembly. Re-install cover. Disconnect W410 from J3 on Air Compressor Control. Remove and retain clamps securing cables to Shelter. Ensure cables are free from Shelter.

h. At front curbside entry panel, disconnect AC power cable, by rotating clockwise, (open clamp securing cable to Shelter front) and disconnect cables from connectors J1 thru J8.

i. Disconnect inlet and outlet coolant hoses.

j. Remove and retain one (1) screw securing ground strap to shelter at front curbside.

k. Disconnect AC power cable from Power Regulator Unit by rotating clockwise. Install covers on connectors. Remove AC power cable from Carrier and store safely.

l. Remove Mast Control from its mounting bracket on the Generator Control Panel. Mount the Mast Control on the bracket located on the Shelter front and secure.

m. On each of the four (4) shelter tie-down cables, loosen nut securing upper clevis to cable tensioner. Spin the body of the cable tensioner until upper clevis is free. Upper clevis remains with shelter lifting ring.

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WARNING

To avoid injury to personnel and damage to equipment, inspect lifting device to insure it is functionally adequate and safe.

n. Position and set up wrecker in accordance with procedures provided in TM 9-2520-260-10.

o. Attach lifting device, NSN 3940-00-291-8728 to wrecker boom hook and position over Shelter.

CAUTION

To avoid damage to Shelter, ensure clevis pin on lifting cables are facing away from Shelter.

p. Attach lifting device to the four (4) top lifting rings, one at each corner of Shelter. Shorter cables go to front two lifting rings. Refer to figure 4-23.

q. Attach guide ropes to top rear lifting rings of Shelter. These will be used to steady the Shelter during removal.

r. Carefully lift Shelter from Carrier to a height of approximately four (4) inches.

s. Drive or tow Carrier away.

CAUTION

To avoid damage to Shelter skids, ensure proper storage support is used.

t. At the Vehicle Interconnection Box, disconnect the following cables:

W407 from J3

W406 from J8

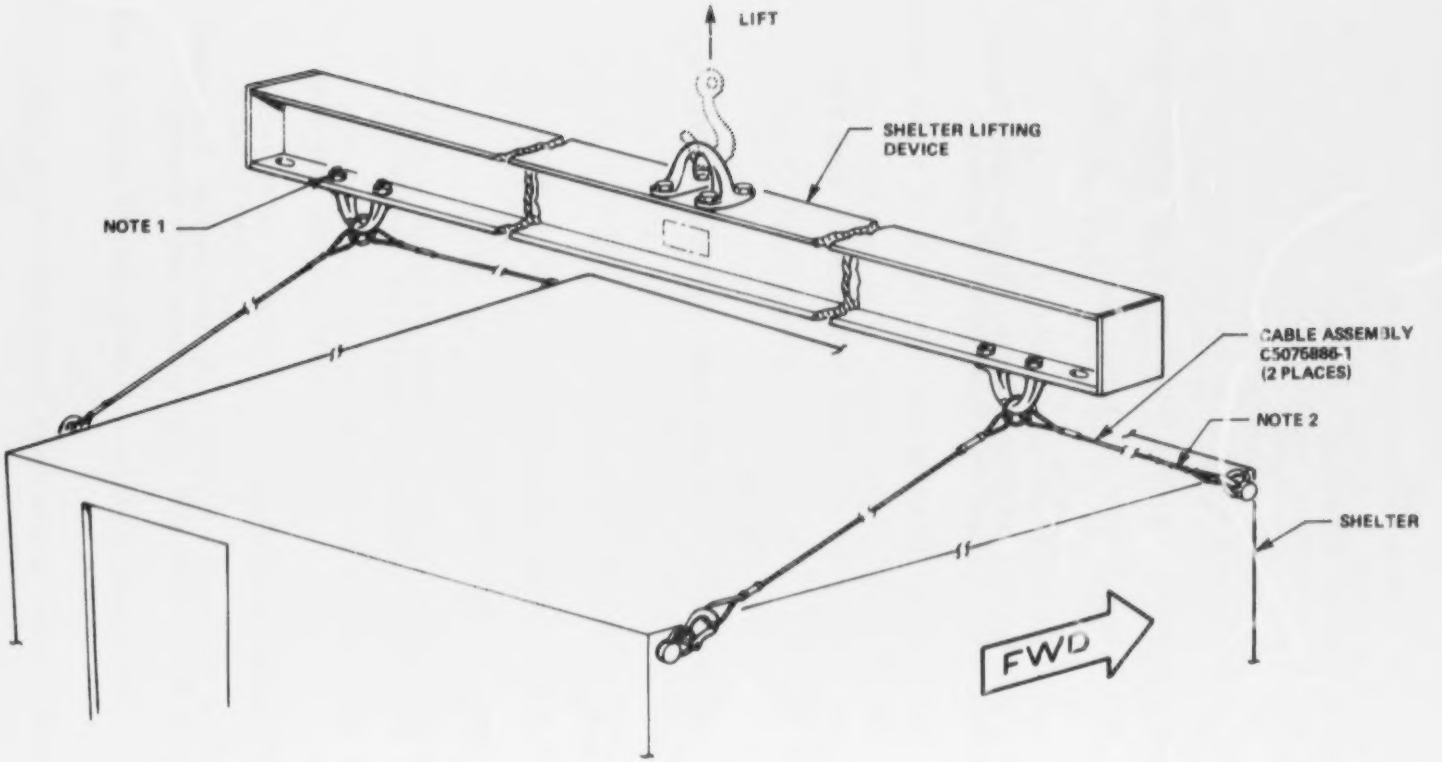
W408 from J9

W405 from J14

Remove cables from the Carrier and store safely.

u. If a replacement Carrier is not immediately available, lower Shelter onto storage supports and remove lifting device and guide ropes. Install protective covers on all connectors.

v. If an AN/MLQ-34 System unique Carrier with Heat Exchanger installed is available, proceed to para 4-6.7.3 to install the Shelter.



NOTES

1. USE THE INNER SET OF FOUR HOLES TO MOUNT LIFT EYES (2 PLACES). MOUNT NUTS ON INSIDE
2. POSITION WITH SHORT CABLE FORWARD

Figure 4-23. Shelter Lifting Device, Method of Attachment

4-6.7.3 Shelter (Unit 1) Installation.

NOTE

If the Shelter has been stowed on storage supports, atttached lifting device and safety cables in accordance with para 4-5.7.2 steps m., n., and o. prior to performing installation described in this paragraph.

a. Install cables removed in step 4-6.7.2.t. at Vehicle Interconnection Box.

b. Ensure that Shelter tie-down cables are installed in replacement Carrier.

c. Position Shelter to a height of four (4) inches above skid guides.

CAUTION

To avoid damage to the Teflon-coated skid guides, ensure that Shelter skids and skid guides are clean and free from abrasive material.

d. Position Carrier under Shelter ensuring that Shelter is 24 inches back from its installed forward position.

e. Ensure Carrier is not running and is parked in accordance with procedures contained in TM 32-5865-060-10.

CAUTION

Avoid damage to cables, hoses, and tie-downs by ensuring they are free and clear of Shelter area in Carrier.

f. Carefully lower shelter onto Carrier. Ensure that Shelter skids are aligned in skid guides.

g. Connect inlet and outlet coolant lines.

h. Connect AC power cable to Power Regulator Unit and secure.

i. At front curbside entry panel, connect AC power cable and cables W402, W407, W403, W405, W406, W401, and W404 to connectors J1 thru J8, respectively.

j. Connect com-along cables.

k. Remove lifting device and guide ropes.

l. Winch Shelter forward into normal position. Ensure Shelter is winched forward in a uniform manner from each side to avoid skid binding.

m. Swing Shelter stops into closed position. Tighten two (2) bolts on each stop.

n. Install two (2) safety cables to two front lower side lifting eyes.

o. Disconnect and stow com-alongs.

p. Connect four (4) Shelter tie-down cables.

NOTE

The upper clevis of the removed Shelter must be repositioned at the upper eyebolts of the replacement Shelter.

q. To adequately tension the four (4) tie-down cables, perform the following:

(1) Ensure that upper clevis is attached to each Shelter eyebolt.

(2) Screw upper clevis into tension body.

(3) Apply a 2-1/8" wrench to hex on body of tensioner. Tighten assembly until the indicator protruding through the body of the tensioner is tight and cannot be moved by hand.

NOTE

When indicator is no longer free to move, the Shelter tie-down cables have been properly tensioned.

r. Using the 2-1/8" wrench above, hold the tensioner body and tighten and lock the jam nut.

s. On top of Shelter, remove Pneumatic Component Assembly cover.

t. Connect cables W408 and W414 to Pneumatic Component Assembly.

u. Re-install Pneumatic Component Assembly cover.

v. Connect W410 to J3 on Air Compressor Control and install cable tie-wraps and/or clamps as necessary.

w. Install clamp on AC power cable.

x. Install ground strap to shelter at front curbside.

y. Remove Mast Control from bracket on Shelter front and secure to bracket on Generator Control Panel.

z. Installation of Shelter is now complete. Refer to TM 32-5865-060-10, for system checkout.

4-6.7.4 Terminal Box (1A14), Removal and Installation. To remove 1A14, perform the following steps:

NOTE

A14 (Cosite Box) is located on the exterior curbside front of shelter.

a. Open RCVR circuit breaker on Power Distribution Panel.

b. Remove and retain ten (10) screws, washers, and the cover of the Terminal Box.

c. Label and unsolder wires to E9.

d. Label and disconnect wires from all binding posts.

e. Remove and retain eight (8) screws and washers securing Terminal Box to Shelter.

f. Disconnect conduit from back of Terminal Box.

g. Carefully pull wires through box connector until wires are free of Terminal Box.

h. To install a replacement unit, reverse steps a. through g. above.

4-6.8 Vehicle Functional Group. Removal/installation procedures for assemblies comprising this group are provided in TM 9-2350-247-34, Direct and General Support Maintenance Manual for Carrier XM-1015.

4-7. **MAINTENANCE OF MODULES/ASSEMBLIES.** The following paragraphs provide maintenance instructions for the modules/assemblies repairable at DS in accordance with the MAC.

4-7.1 Maintenance of RCU Bus Termination (A19). The maintenance tasks for A19 are described in the following subparagraphs.

4-7.1.1 Removal. Remove A19 from the system as described in para 2-9.1.7.

4-7.1.2 Inspection. Inspect A19 as follows:

a. Check for accumulation of dirt and grease. Clean as necessary.

b. Check for bent connector pins. Replace as necessary.

4-7.1.3 Test. Test A19 as described in table 4-5.

4-7.1.4 Repair. A19 may be repaired by replacing faulty or damaged components. To replace components, carry out the following steps:

a. Replace J1 as follows:

(1) Remove connector shield.

(2) Remove heat shrink tubing.

(3) Unsolder all leads connected to pins.

(4) Unsolder jumper wire connected between pins A and H.

(5) Remove and retain resistor-diode array from connector J1.

(6) Remove J1.

(7) To install J1, reverse steps (1) thru (6) above.

b. Replace components as follows:

(1) Remove connector shield.

(2) Remove heat shrink tubing.

(3) Unsolder and remove faulty component.

(4) To install a replacement component:

(a) Install and solder component.

(b) Install heat shrink tubing.

(c) Install connector shield.

4-7.2 Maintenance of Terminal Box (1A14). The maintenance tasks for 1A14 are described in the following subparagraphs.

4-7.2.1 Removal. Remove 1A14 from the system as described in para 4-6.7.4.

4-7.2.2 Inspection. Inspect 1A14 as follows:

a. Access terminal posts.

b. Inspect for damaged terminal posts and replace as necessary.

4-7.2.3 Test. Test 1A14 as described in para 4-4.6.

4-6.2.4 Repair. Repair of 1A14 is accomplished by replacement. Refer to para 4-6.7.4.

4-7.3 Maintenance of Receiver Set Filter (A18). The maintenance tasks for A18 are described in the following subparagraphs. Filter A18 is tested by removing and troubleshooting the voice filter control subassembly A18A1.

4-7.3.1 Removal. Remove A18 from the system as described in para 4-6.4.1. Remove A18A1 from A18 as described in para 4-6.4.3.

4-7.3.2 Test. Test the assembly as described in table 4-6.

4-7.3.3 Repair. A18A1 may be repaired by replacing faulty or damaged components. To replace faulty components, carry out the following steps:

CAUTION

AN EMI gasket is fitted to this assembly. Ensure the gasket is undamaged and seats properly, when assembly is replaced.

a. Remove access cover as follows:

(1) Remove and retain eight (8) screws and lock washers securing access cover to assembly box.

(2) To replace cover, reverse step a.(1).

b. Replace FL1 and/or FL2 as follows:

(1) Remove and retain access cover. Refer to para a. above.

(2) Unsolder connections to input and output connections.

(3) Remove hex nut and lock washer securing filter to filter support bracket.

(4) Remove filter.

(5) Discard faulty component.

(6) To install a replacement filter:

(a) Remove hex nut and lock washer from filter.

NOTE

When installed, hex nuts on filters are to be torqued to 6 to 8 inch pounds.

(b) Reverse steps (1) and (2).

c. Replace S1 and/or S2 as follows:

(1) Remove and retain access cover. Refer to para a. above.

(2) Label and disconnect all coaxial cables on switch.

(3) Remove and retain two screws, nuts, flat washers, and lock washers securing switch to box.

(4) With component free from obstructions, label and unsolder control wires to switch.

(5) To install a replacement switch, reverse steps (1) through (4) above.

4-7.4 Maintenance of Air Compressor Control (A17). The maintenance tasks for A17 are described in the following subparagraphs.

4-7.4.1 Removal. Remove A17 from the system as described in para 2-9.6.5.

4-7.4.2 Inspection. Inspect A17 as follows:

a. Check that connector threads are free from defects. Replace if threads are crushed or otherwise damaged.

b. Check that switch is free from defects. Replace switch if damaged.

4-7.4.3 Test. Test A17 as described in table 4-12.

4-7.4.4 Repair. A17 may be repaired by replacing faulty or damaged components. To replace components, carry out the following steps:

a. Replace connectors as follows:

CAUTION

An EMI gasket is fitted between the cover and A17 housing. Ensure the gasket is undamaged and seals properly when the cover is replaced. Replace EMI gasket if damaged or does not seat properly.

(1) Loosen four captive screws securing the cover to A17 housing. Remove the jam nut securing switch S1 and switch guard to cover.

(2) Using connector pin/insert pin removal tool MS27534-20, remove wire connections at faulty connector.

(3) Remove and retain four screws, washers, and nuts securing connector to A17 housing.

(4) Remove and discard faulty connector.

(5) To install replacement connector, reverse steps (1) through (3) above.

b. Replace switch S1 as follows:

CAUTION

An EMI gasket is fitted between the cover and A17 housing. Ensure the gasket is undamaged and seals properly the cover is replaced. Replace EMI gasket if damaged or does not seat properly.

(1) Loosen four captive screws securing cover to A17 housing.

(2) Label and unsolder connections to S1.

(3) Remove jam nut securing S1 and switch guard to cover.

(4) Installation of S1 is as follows:

(a) Solder wires removed above on replacement S1.

(b) Reverse steps (1) thru (3) above.

4-7.5 Maintenance of Mast Control Assembly (2A16). The maintenance tasks for 2A16 are described in the following subparagraphs.

4-7.5.1 Removal. Remove 2A16 from the system as described in para 2-9.6.1.

4-7.5.2 Test. Test 2A16 as described in table 4-10.

4-7.5.3 Repair. 2A16 may be repaired by replacing faulty or damaged components. To replace components, carry out the following steps:

a. Replace indicators as follows:

NOTE

Indicators may be replaced without disassembling 2A16.

(1) Using a small flat point screwdriver in the groove at the edge of the indicator, gently pull out the indicator assembly.

(2) Insert the indicator into the assembly sleeve and push gently until the retaining spring snaps into place.

b. Replace switch S1 or S2 as follows:

(1) Remove and retain indicators. Refer to para b. above.

(2) Remove and retain four (4) screws and washers securing cover.

(3) Label and unsolder connections at rear of switch.

(4) Using a flat blade screwdriver, turn integral mounting cam screw on upper inside edge of switch assembly.

(5) Remove switch mounting sleeve.

(6) Remove switch.

(7) Replace switch S1 or S2 as follows:

(a) Mount switch with integral mounting cam facing top of mast control assembly.

(b) Reverse steps (2) thru (6) above.

c. Replace connector J1 as follows:

(1) Remove and retain four (4) screws and washers securing cover.

(2) Label and unsolder wires connected to J1.

(3) Remove and retain four (4) screws, washers, and nuts securing J1 to 2A16.

CAUTION

An EMI gasket is fitted between J1 and the 2A16 housing. Ensure the gasket is undamaged and seals properly when J1 is replaced.

(4) Remove J1.

(5) Inspect EMI gasket and replace as required.

(6) Replace J1 by reversing steps (1) thru (4) above.

d. Replace indicator M1 as follows:

(1) Remove and retain four (4) screws and washers securing cover.

(2) Label and unsolder wires connected to M1.

(3) Remove and retain nut securing M1 to cover.

(4) Remove M1.

(5) Replace M1 by reversing steps (1) thru (3) above.

4-7.6 Maintenance of Antenna Support (1A16). The maintenance tasks for 1A16 are described in the following subparagraphs.

4-7.6.1 Removal. Remove 1A16 from the system as described in para 4-6.5.6.

4-7.6.2 Inspection. Inspect 1A16 as follows:

a. Check for damaged or missing components. Replace as necessary.

b. Check for frayed, chafed, or cracked control cable. Replace as necessary.

4-7.6.3 Test. Test 1A16 as described in table 4-13.

4-7.6.4 Adjust. Adjust 1A16 as follows:

a. Adjust bracket in vertical direction as follows:

(1) Loosen four (4) socket cap screws on the antenna support bracket secured to the antenna support bracket base.

(2) Adjust the bracket as necessary.

(3) After adjustment, secure the four (4) screws.

b. Adjust bracket in horizontal direction as follows:

(1) Loosen four bolts securing antenna base support bracket to the Shelter.

(2) Adjust the bracket as necessary.

(3) After adjustment, secure the four (4) screws.

4-7.6.5 Repair. Repair of 1A16 is accomplished by replacing faulty or damaged components (refer to para 4-6.5.6). After repair, ensure 1A16 is properly adjusted for storage of the LPA (refer to para 4-7.6.4).

4-7.7. Maintenance of Antenna Shroud (A6). The maintenance tasks for A6 are described in the following subparagraphs.

4-7.7.1. Removal. Remove A6 from the system as described in para 4-6.5.7.

4-7.7.2 Inspection. Inspect A6 as follows:

a. Check for signs of wear, missing, or damaged parts. Replace as necessary (refer to para 4-6.5.7).

b. Inspect metal surfaces for rust, corrosion and bare spots. Touch up paint work as necessary.

4-7.7.3 Repair. Repair of A6 is accomplished by replacing damaged sections of A6. Refer to para 4-6.5.7.

4-7.8 Maintenance of Filter Assy (1A13). The maintenance tasks for 1A13 are described in the following subparagraphs.

4-7.8.1 Removal. Remove 1A13 from the system as described in para 4-6.5.8.

4-7.8.2 Inspection. Inspect 1A13 as follows:

a. Check for damaged components. Replace as necessary.

b. Check wiring for burnt, broken or frayed wires, damaged connectors and faulty solder joints. Repair as necessary.

4-7.8.3 Test. Test 1A13 as described in table 4-6.

4-7.8.4 Repair. 1A13 may be repaired by replacing faulty or damaged components. To replace components, carry out the following steps:

CAUTION

An EMI gasket is fitted to this assembly. Ensure the gasket is undamaged and seals properly, when assembly is replaced.

a. Replace connector J1 as follows:

(1) Remove and retain eight (8) countersunk screws securing cover (cover without connector mounted) to 1A13 housing.

(2) Label and unsolder wires connected to J1.

(3) Remove and retain four (4) screws, washers and nuts securing J1 to 1A13 housing. Remove J1. Retain electrical connector cover.

(4) To install replacement J1, reverse steps (1) thru (3) above.

CAUTION

An EMI gasket is fitted to this assembly. Ensure the gasket is undamaged and seals properly, when assembly is replaced.

b. Replace connector J2 as follows:

(1) Remove and retain eight screws and washers securing cover to 1A13 housing.

(2) Label and unsolder wires connected to J2.

(3) Remove and retain jam nut securing J2 to cover. Remove J2.

(4) To install replacement J2, reverse steps (1) thru (3) above.

CAUTION

An EMI gasket is fitted to this assembly. Ensure the gasket is undamaged and seals properly, when assembly is replaced.

c. Replace filters FL1 thru FL30 as follows:

(1) Remove and retain eight (8) countersunk screws securing each of the covers to 1A13 housing. Refer to steps a.(1) and b.(1) above. Remove covers to gain access to interior of housing.

(2) Label and unsolder wires at both ends of the appropriate filter.

(3) Remove hex nut and washer securing filter in place. Remove filter.

(4) To install replacement filter, reverse steps (1) thru (3) above.

4-7.9 Maintenance of Antenna Patch Panel (1A18). The maintenance tasks for 1A18 are described in the following subparagraphs.

4-7.9.1 Removal. Remove 1A18 from the system as described in para 2-9.6.3.

4-7.9.2 Inspection. Inspect 1A18 as follows:

a. Check cable for evidence of chafing, cracking or excessive strain. Replace as necessary.

b. Check for damaged connectors. Replace as necessary.

4-7.9.3 Test. Testing of 1A18 is accomplished by checking the RF cable assembly for an open or short circuit using multimeter ME-303A/U.

4-7.9.4 Repair. Repair of 1A18 is accomplished by replacing faulty or damaged components. To replace components, carry out the following steps:

a. Replace RF cable assembly as follows:

(1) Remove nut securing connector P1 to panel.

(2) Remove nut securing connector P2 to panel.

(3) Remove cable assembly and replace nuts on P1 and P2.

(4) To install a replacement cable, reverse steps (1) thru (3) above.

b. Replace RF connectors CP1/CP2 as follows:

(1) Remove and retain four (4) screws and washers securing connector to panel.

(2) Remove connector from panel.

(3) To install a connector, reverse steps (1) and (2) above.

4-7.10 Maintenance of Electrical Equipment Rack (MP1-MP3) Extension Drawer Slides. The maintenance tasks for the electrical equipment rack extension drawer slides are described in the following subparagraphs.

4-7.10.1 Removal. To remove the drawer slide, carry out the following steps:

a. Remove electronic equipment from the equipment rack, as necessary.

b. Mark position of drawer slide being removed on the equipment rack.

c. Support the drawer slide and remove four (4) bolts, washers, shims, and nuts securing the drawer slide to the equipment rack.

d. Remove the drawer slide.

e. To install a replacement drawer slide, reverse steps a. thru d. above.

4-7.10.2 Repair. Repair of extension drawer slides is accomplished by replacement. See para 4-7.10.1.

4-7.11 Maintenance of Distribution Box (AC Filter) A8, A9, and A19. The maintenance tasks for A8, A9, and A19 are described in the following subparagraphs.

4-7.11.1 Removal. Remove A8, A9, and A19 from the system as described in para 4-6.6.2.

4-7.11.2 Inspection. Inspect A8, A9, and A19 as follows:

a. Check for loose, missing or damaged connectors and hardware. Secure or replace as necessary.

b. Check cables for signs of chafing, cracking and excessive strain. Replace as necessary.

4-7.11.3 Test. Check continuity of line filter and wiring from FL1 to appropriate connector.

4-7.11.4 Repair. Repair of A8, A9, and A19 is accomplished by replacement of faulty or damaged components. To replace components, carry out the following steps:

a. Replace power cable assembly (5) as follows:

CAUTION

An EMI gasket is fitted to this assembly. Ensure the gasket is undamaged and seals properly, when assembly is replaced.

(1) Remove and retain the sixteen (16) screws and washers securing the distribution box cover.

(2) Loosen the screw securing the terminal block retainer in the terminal board.

(3) Using tool number MS27534-16, extract the cable ends from the terminal blocks.

(4) Remove the bushing from the conduit fitting. Pull the cable through the outlet and remove from the box.

(5) Feed the ends of the replacement cable through outlet and route the ends to the terminal board.

(6) Using tool number MS27534-16, insert the ends of the cable in the appropriate terminals of the block. Ensure connections are correctly made and secure.

(7) Replace terminal blocks and secure.

(8) Secure the bushing on the conduit fitting.

(9) Replace the distribution box cover and secure using the screws retained in step (2) above.

(10) Route the cable into the rack cable harness and secure.

b. To install a replacement filter (A8FL1, A9FL1, and A19FL1) in the distribution box, carry out the following steps:

(1) Remove the distribution box from the rack (refer to para 4-6.6.2).

(2) Remove and retain the sixteen (16) screws and washers securing the distribution box cover. Remove the cover.

(3) Label and remove the connections to terminals E4 thru E6. Retain hardware.

(4) Remove and retain the two (2) nuts and washers from terminals E6 and E7 and remove FL1 from the distribution box.

(5) Remove the six (6) captive screws on the input power box cover and remove cover.

(6) Label and remove the connections to E1 and E2. Retain hardware.

(7) Remove and retain the two nuts from terminals E8 and E9 and remove the terminal box from the line end of FL1.

WARNING

Adequate ventilation should be provided while using TRICHLOROTRIFLUOROETHANE. Prolonged breathing of vapor should be avoided. The solvent should not be used near heat or open flame; the products of decomposition are toxic and irritating. Since TRICHLOROTRIFLUOROETHANE dissolves natural oils, prolonged contact with skin should be avoided. When necessary, use gloves which the solvent cannot penetrate. If the solvent is taken internally, consult a physician immediately.

(8) Use a lint free cloth moistened with cleaning fluid to clean the area around the terminals (line end and load end) of the replacement filter assembly. Allow to dry.

WARNING

The recommended adhesive gives off vapors which are extremely flammable and toxic. Adequate ventilation should be provided while using adhesive (5054638-1). Prolonged breathing of vapor should be avoided. The adhesive should not be used near heat or open flame. Avoid eye contact. Avoid prolonged or repeated skin contact. Keep container closed when not in use. If swallowed, consult a physician immediately.

(9) Bond a gasket (P/N 5055289-1) to each end of the replacement RFI filter as follows:

(a) Brush an even coat of adhesive (P/N 5054638-1) on both surfaces. Allow to dry.

(b) Position the gasket and press firmly into place.

(c) Remove excess adhesive using the recommended solvent.

(10) Fit the terminal box to the line end of the filter and secure using the hardware retained in step (4) above.

(11) Secure connectors to terminals E1 and E2 using the hardware retained in step (6) above.

(12) Replace cover and tighten (6) screws.

(13) Fit output distribution box to the LOAD end of filter and secure using the hardware retained in step (4).

(14) Connect the distribution box wires numbered 1 thru 6 to the terminals of the filter as follows; wire numbers 1 and 2 to FL1 terminal E4, wire numbers 3 and 4 to FL1 terminal E5, and wire numbers 5 and 6 to FL1 terminal E6. Use the washers and nuts retained in step (3) above. Ensure all connections are secure.

(15) Replace and secure the distribution box cover using the sixteen screws retained in step (2) above.

4-7.12 Maintenance of Cable Sets (P/N 5051435-1 and 5052257-1). The maintenance tasks for the cable sets are described in the following subparagraphs.

4-7.12.1 Repair of Standard MS Type Connectors. Repair of standard MS type connectors is as follows:

CAUTION

Do not attempt to remove the inserts from the shell. These components are permanently bonded to the sheils and cannot be removed without destroying them. Also, do not attempt to remove the face seal from the pin insert.

CAUTION

Always choose a clean, dry, smooth, working surface to prevent foreign matter from collecting on the sealing surfaces or the electrical components. This is necessary also to prevent abrasion of sealing surfaces. Avoid sliding the resilient components along working surfaces.

CAUTION

Damage to the wire holes in the resilient grommet may occur during insertion of the contacts. This damage may be limited to small slash or knife-blade type cuts resulting in cracks which radiate between the wire holes. The grommet will seal satisfactorily in this case. Damage around the holes may consist of nicks or voids due to small portions of the rubber being removed or gouged out. Large voids present serious sealing problems, requiring replacement of connectors.

a. Wire Preparation. Use a wire stripper and remove the insulation to the required length. If ends fray, twist them back to their original lay.

b. Attachment of Wires to Contacts. Attach wires to contacts as follows:

(1) Select the socket or pin contact as required according to the wire size.

(2) Select the proper crimp tool.

(3) Select the turret to go with the crimp tool.

(4) Screw the turret locator into the tool until it bottoms. Tighten with hand pressure only. Do not use a wrench or drift pin.

(5) Adjust crimp tool setting for wire size.

(6) Insert the stripped wire into the contact pocket until it is visible through the inspection hole.

(7) Insert the contact and wire into the contact locator of the crimping tool on the underside of the tool.

(8) With the contact in the locator, close the jaws of the crimping tool by squeezing on the handles. The handles should be closed until the ratchet mechanism trips allowing the handles to return to the open position. The crimp tool will release only after it has completed its cycle and the ratchet mechanism is released. Do not attempt to open the tool after a partial cycle. Every cycle must be complete.

(9) Remove the crimpled contact from the jaws and locator or the crimping tool. Visually check the inspection hole in the wire pocket end of the contact to see that the wire is visible. The wire is now ready for installation into the connector.

c. Inserting Contacts Into Connector. Insert contacts into connectors as follows:

(1) Unlock the rear nut assembly by unscrewing it until some resistance to turning is felt, about 2-1/2 turns.

(2) Place the crimped contact into the desired hole by hand until only the crimped portion of the contact extends from the grommet.

(3) Position the insertion tool around the rear of the contact shoulder. Note the slight angle at which the tool is held; this helps retain the tool on the contact and assures poking the contact fully home and prevents the tool from slipping off the rear shoulder of the contact.

(4) Firmly push the contact into the hole until a slight click is felt indicating the contact is seated in the bottom of the hole.

(5) Remove the tool by sliding it along the wire insulation until it clears the resilient grommet.

(6) After all wired contacts are inserted, insert unwired contact and a sealing plug in all unused holes.

(7) After all wired contacts are fully tested and sealing plugs are inserted, rotate the rear nut assembly clockwise until it is fully bottomed against the rear shell.

(8) Slide the cable support hardware to the rear grommet and tighten.

d. Removing Contacts From Connector. Remove contacts from connectors as follows:

(1) Remove cable support or accessory hardware from wire bundle.

(2) Unlock rear nut by turning counterclockwise as in para c.(1) above.

(3) Select the proper contact removal tool. Refer to the MAC.

(4) Align and place tool over exposed pin probe. Place tool probe through insert and into socket contact body. The protective sleeve will retract into the tool as force is applied. Apply force with a straight motion perpendicular to the insert face.

CAUTION

Remove only one contact at a time to prevent possible grommet damage.

(5) When the tool has bottomed against the insert face, the contact will appear at the grommet end. Remove by pulling gently on the wire.

e. Testing Cable Assemblies After Repair. Test cable assemblies after repair as follows:

CAUTION

Completed cable assemblies should be given a high voltage test, an insulation resistance test, and a resistance and continuity test as follows:

(1) Hipot Test. Apply 1000 Vdc for 0.5 seconds between each pin and ground. Current shall not exceed 1 milliampere

(2) Insulation Resistance Test. Apply 500 Vdc for 0.5 seconds between each pin and ground (connector shell). Resistance must be at least 90 megohms.

(3) Resistance Continuity Test. Apply 6 Vdc (maximum current 100 mA) for 0.5 seconds from each pin at one end of cable to each corresponding pin at the other end of cable. Cables using size 24 AWG wire must have a resistance of not more than one ohm per each 30 feet length; cables using size 20 AWG wire must have a resistance of not more than one ohm per each 60 feet of length; and cables using sizes 12, 14, or 20 AWG wire must have a resistance of not more than one ohm per each 100 feet of length.

4-7.12.2 Repair of Power Connectors. This paragraph explains the procedure for repairing a power connector by replacing either a pin or socket contact or replacing an entire connector.

a. Connector Preparation. Visually inspect the connector and accessory for damaged contacts or other parts. Inserts, contacts, and inside surfaces of shell must be kept free of contamination by oil, grease and dirt throughout the procedure. Clean these areas using a soft, lint free cloth dampened with denatured ethyl alcohol.

NOTE

The threads of the shell are lubricated. If lubrication is removed by cleaning procedures, apply a thin film of grease to the threads before reassembly.

b. Cable Preparation.

(1) If wires are damaged and cable must be shortened slightly, cut the cable clean and square. Strip cable sheath or outer jacket back three inches for connector sizes 28 or 32 and 4-1/4 inches for the larger size 44 shell. With a sharp cutting tool, cut around jacket and pull it off. If jacket is tight, make a lengthwise cut and peel it off. Non-grounding connector assemblies include an additional skidwasher over the grommet.

(2) Strip insulation of individual conductors 3/4 inch from end. Hot wire stripping methods are required. If necessary, reform separate conductors by lightly twisting the strands together.

c. Crimping Contacts. Insert stripped end of conductor into contact wire well, applying slight pressure until it is positively bottomed. Wire strands must be visible in the inspection hold provided in the wire well. When installing two or more ground wires into one contact, it is important that all ground wires be completely seated into the contact wire well prior to crimping. If this is not done, one of the ground wires may pull out resulting in an extremely low crimp tensile strength on the remaining wires which could result in loss of grounding.

CAUTION

Extreme care must be taken to make sure the power conductors are in the same plane as the ground conductors after crimping of the ground conductors into the contact (same length). This will locate all contact retention shoulders in the same transverse plane and will ease the assembly of the contacts into the spacer assembly. If one conductor is shorter than the others, severe damage to the retention bushings could result.

Select proper crimping tool for contact and wire size to be crimped. (Refer to MAC.) With the conductor in place, insert contact into tool. Close crimping tool fully to form a uniform crimp. Repeat procedure for other contacts. Verify that contacts are properly crimped and ends of conductors are visible in inspection holes of wire wells.

d. Contact Installation.

(1) Align insert with shell so that large tape on insert mates with large slot in shell. Push insert into shell until it bottoms.

(2) Apply a thin coating of lubricant around the individual grommet sealing holes in insert to aid in the insertion of the contacts. Align the contacts with the appropriate holes in spacer or grommet assembly. Grasp the cable or conductors and push contacts into the rear of the spacer or grommet assembly until it locks into the contact retaining bushing. Check to make sure all contacts are locked in place by pushing on the front of each contact.

(3) Align contacts with proper insert holes. Small key of insert must be aligned with keyway in wafer. Slide contacts into insert holes until spacer or grommet assembly butts against insert. A thin film of DC-4 applied to the periphery of each contact hole will ease assembly and provide maximum sealing efficiency.

(4) If lubricant on O ring of back adapter has been wiped dry, apply a very thin film of DC-4. Avoid applying any excess. Slide back adapter (or retaining nut if bulkhead connector) forward on cable and fasten into place on shell. The back adapter is secured using three screws and lockwashers. The retaining nut is threaded onto the connector shell using a left hand thread.

(5) Lubricate outer surface of rubber gland and threads of gland nut with a thin film of Uni-Temp Grease EP. Keep lubricant from cable and inside surfaces of parts as it will reduce effective grip of gland on cable. Slide gland washer and gland into connector housing, making sure they are seated properly. Slide the cable grip toward each other to increase its diameter, permitting it to slide along cable. When in position, preload grip by stretching it back along cable and apply grip banding clamp to hold it in the stretched condition so that tightening of nut will cause grip to bite into cable jacket. Tighten the retaining nut or gland nut until a metal to metal seating with the adapter or shell occurs. When tightening the gland nut on maximum diameter cable, a metal to metal seating may not occur on the initial

tightening. A second tightening is therefore necessary after the cable has been allowed to set for approximately 12 hours.

e. Contact Removal. Should it become necessary to replace contacts, proceed as follows:

(1) Loosen all rear accessories and slide back along cable.

(2) Remove spacer or grommet assembly with contacts from connector shell.

(3) Choose appropriate contact removal tool for the contact being replaced, slide tool over front of contact until it firmly bottoms in spacer or grommet assembly hole. A slight drag may be noticed as tool opens contact retaining bushing, releasing the contact. All contacts must be released before removal of the contacts is attempted.

(4) Grasp conductor and remove contact from spacer or grommet assembly by pulling straight to rear. Remove tool from spacer or grommet assembly.

4-7.12.3 Repair of RF Coaxial Connector. For repair of RF coaxial connectors refer to MIL-HDBK-216.

Section V. TESTING AFTER REPAIR

4-8. **TESTS AND PROCEDURES.** System unit tests are performed by the system computer using BITE. Satisfactory performance is indicated when the tests are successful. The procedure for running system BITE is described in TM 32-5865-060-10. Tests for the repairable system units not having individual manual coverage, are described in Section IV. The repaired assembly must meet all the requirements of the test before it is returned to service. Appendix A contains a list of system units having separate manuals.

Table 4-16. Cable List Intra Shelter

NOTES - UNLESS OTHERWISE SPECIFIED:

1. CONNECTOR/CABLE ASSEMBLY AND WORKMANSHIP PER MIL-STD-454F
2. NOT USED
3. NOT USED
4 CABLES IS PREFABRICATED ON P1 END
5 NOT USED
6. CABLE W161 IS PREFABRICATED ON P1,P3,P5 AND P7 ENDS OF CABLE HARNESS
7. CABLE W288 IS PREFABRICATED ON P2 END OF CABLE HARNESS
8. ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
9. CABLE IS PURCHASED ASSEMBLY REQUIRING NO FABRICATION
10. CABLE IS SUPPLIED AS A PREFABRICATED ASSEMBLY
11. INSTALL JUMPER BETWEEN INDICATED PINS
12. ( )PLUS REV LETTER USED IN REMARKS COL ADJACENT TO REVISED INFORMATION
13. NOT USED
14. CABLE IS VFE
15. FLOAT SHIELDS
16. TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT
17. DAISY-CHAIN CIRCUIT REQUIRES TWO(2) WIRES BE TERM. IN DESIGNATED CONTACTS
18. SEE SHEET 2 OF THIS REPORT
19. NOT USED
20. TERMINATE OUTER SHIELD TO ADAPTER
21. CABLE DASH NUMBERS ARE THE SAME AS THE CABLE REFERENCE DESIGNATION (W NUMBER).
22. REQUIRES TWO (2) WIRES BE TERMINATED IN DESIGNATED CONTACTS
23. WIRE IN THE SHELTER

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INTRA SHELTER CABLES                                                                    REF DES REPORT
------------------------------------------------------------------------------------------------------------------------
L :CABLE ASSY :      CABLE WIRING DATA            :                      :           SYSTEM ADDRESS           :      :
I ------------------------------------------------:                      :------------------------------------LENGTH:
N :REF     :PART:CABLE TYPE-WIRE :  FROM  :   TO  :  SYSTEM FUNCTION/    :      FROM       :       TO         :      :REMARKS
E :DES     : NO :NO-COLOR-GA-KIND------------------:     VOLTS-AMPS       :       P1        :       P2         : FEET :
# :        :    :                : P1 :NT : P2 :NT :                      :                 :                  :      :
========================================================================================================================
 1 W100        M17/84-RG223                          REFLECTED RF          A35J001           A12J013                  (J)
 2
 3
 4
 5 W101        M17/84-RG223                          FORWARD RF            A35J003           A12J010                  (J)
 6
 7
 8
 9 W103        M17/84-RG223                          ANT PF1               A35J002           A21J007                  (J)
10
11
12
13 W104        M17/84-RG223                          RFDRIVE               A15J005           A35AR1J001               (J)
14
15
16
17 W105                         P1        P2         (ACU-1 TO TR-1)XMTR GATE  A12J012       A35J004                  (J)
18 W105                           A                  OUTER SHLD                                                      (J)
19 W105        SHLDS              B 016     B 016    INNER SHLD
20 W105                           C 008              N/C
21 W105                           D 008              N/C
22 W105                           E 008              N/C
23 W105                           F 008              N/C
24 W105                           G 008              N/C
25 W105                           H 008              N/C
26 W105                           J 008              N/C
27 W105                           K 008              N/C
28 W105                           L 008              N/C
29 W105                           M 008              N/C
30 W105                           N 008              N/C
31 W105                           P 008              N/C
32 W105                           R 008              N/C
33 W105                           S 008              N/C
34 W105                           T 008              N/C
35 W105                           U 008              N/C
36 W105                           V 008              N/C
37 W1C5        WHT-1  22AWG       W         C        SIGNAL RTN
38 W105        BLK-2  22AWG TSP   X         D        DUPLEXER GATE (+)
39 W105        WHT-2  22AWG TSP   Y         E        DUPLEXER GATE (-)
40 W105        BLK-3  22AWG TSP   Z         F        SPARE
========================================================================================================================

 8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT
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LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W105		WHT-3 22AWG TSP	•A		G		SPARE				
2	W105		BLK-4 22AWG TSP	•B		H		DRIVER GATE (+)				
3	W105		WHT-4 22AWG TSP	•C		J		DRIVER GATE (-)				
4	W105					K	008	N/C				
5												
6												
7												
8	W106			P1		P2		BPM SENSE ACU-1 TO TR-1	A12J003	A35J005		
9	W106		SHLDS	B		B	016	INNER SHIELD				(J)
10	W106			C	008			N/C				(J)
11	W106			D	008			N/C				
12	W106			E	008			N/C				
13	W106			F	008			N/C				
14	W106			G	008			N/C				
15	W106			H	008			N/C				
16	W106			J	008			N/C				
17	W106			K	008			N/C				
18	W106			L	008			N/C				
19	W106			M	008			N/C				
20	W106			N	008			N/C				
21	W106			P	008			N/C				
22	W106			R	008			N/C				
23	W106			S	008			N/C				
24	W106		WHT-1 22AWG SH	T		C		SIGNAL RTN				
25	W106		WHT-2 22AWG SH	U		D		A07 BPM SENSE-BPA1				(J)
26	W106		WHT-3 22AWG SH	V		E		A27 BPM SENSE-BPA1				(J)
27	W106		WHT-4 22AWG SH	W		F		A28 BPM SENSE-BPA1				(J)
28	W106		WHT-5 22AWG SH	X		G		A29 BPM SENSE-BPA1				(J)
29	W106		WHT-6 22AWG SH	Y		H		A30 BPM SENSE-BPA1				(J)
30	W106		WHT-7 22AWG SH	Z		J		A08 BPM SENSE-BPA2				(J)
31	W106		WHT-8 22AWG SH	•A		K		A31 BPM SENSE-BPA2				(J)
32.	W106		WHT-9 22AWG SH	•B		L		A32 BPM SENSE-BPA2				(J)
33	W106		WHT-10 22AWG SH	•C		M		A33 BPM SENSE-BPA2				(J)
34	W106		WHT-11 22AWG SH	•D		N		A34 BPM SENSE-BPA2				(J)
35	W106		WHT-12 22AWG SH	•E		P		A09 BPM SENSE-BPA3				(J)
36	W106		WHT-13 22AWG SH	•F		R		A35 BPM SENSE-BPA3				(J)
37	W106		WHT-14 22AWG SH	•G		S		A36 BPM SENSE-BPA3				(J)
38	W106		WHT-15 22AWG SH	•H		T		A37 BPM SENSE-BPA3				(J)
39	W106		WHT-16 22AWG SH	•I		U		A38 BPM SENSE-BPA3				(J)
40	W106		WHT-17 22AWG SH	•J		V		A10 BPM SENSE-BPA4				(J)

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W106		WHT-18 22AWG SH	•K		W		A39 BPM SENSE-BPA4				(J)
2	W106		WHT-19 22AWG SH	•M		X		A40 BPM SENSE-BPA4				(J)
3	W106		WHT-20 22AWG SH	•N		Y		A41 BPM SENSE-BPA4				(J)
4	W106		WHT-21 22AWG SH	•P		Z		A42 BPM SENSE-BPA4				(J)
5	W106		WHT-22 22AWG SH	•Q		•A		A02 BPM SENSE-BPA4				(J)
6	W106		WHT-23 22AWG SH	•R		•B		FLTR 1 SELECT				(J)
7	W106		WHT-24 22AWG SH	•S		•C		FLTR 2 SELECT				(J)
8	W106		WHT-25 22AWG SH	•T		•D		FLTR 3 SELECT				(J)
9	W106		WHT-26 22AWG SH	•U		•E		FLTR 4 SELECT				(J)
10	W106		WHT-27 22AWG SH	•V		•F		FLTR 5 SELECT				(J)
11	W106		WHT-28 22AWG SH	•W		•G		DUMMY LOAD SEL				(J)
12	W106		WHT-29 22AWG SH	•X		•H		28VDC				(J)
13	W106		WHT-30 22AWG SH	•Y		•I		FLTR 1 INDICATOR				(J)
14	W106		WHT-31 22AWG SH	•Z		•J		FLTR 2 INDICATOR				(J)
15	W106		WHT-32 22AWG SH	AA		•K		FLTR 3 INDICATOR				(J)
16	W106		WHT-33 22AWG SH	BB		•M		FLTR 4 INDICATOR				(J)
17	W106		WHT-34 22AWG SH	CC		•N		FLS INDICATOR				(J)
18	W106		WHT-35 22AWG SH	DD		•P		DUM LOAD				(J)
19	W106		WHT-36 22AWG SH	EE		•Q		SELECT RTN				
20	W106		WHT-37 22AWG SH	FF		•R		INPUT SW SENSE				
21	W106		WHT-38 22AWG SH	GG		•S		OUTPUT SW SENSE				
22	W106		WHT-39 22AWG SH	HH		•T		SPARE				
23	W106			B	008			INNER SHLD N/C				
24	W106				015							
25												
26												
27												
28	W107			P1		P2		BPM CONT	A35J006	A12J002		(J)
29	W107		SHLDS	B	016			INNER SHLD				(J)
30	W107		WHT-1 22AWG SH	C		C		SIGNAL RTN				(J)
31	W107		WHT-2 22AWG SH	D		D		A03-BPM SENSE-BPA5				(J)
32	W107		WHT-3 22AWG SH	E		E		A11-BPM SENSE-BPA5				(J)
33	W107		WHT-4 22AWG SH	F		F		A12-BPM SENSE-BPA5				(J)
34	W107		WHT-5 22AWG SH	G		G		A13-BPM SENSE-BPA5				(J)
35	W107		WHT-6 22AWG SH	H		H		A14-BPM SENSE-BPA5				(J)
36	W107		WHT-7 22AWG SH	J		J		A04-BPM SENSE-BPA6				(J)
37	W107		WHT-8 22AWG SH	K		K		A15-BPM SENSE-BPA6				(J)
38	W107		WHT-9 22AWG SH	L		L		A16-BPM SENSE-BPA6				(J)
39	W107		WHT-10 22AWG SH	M		M		A17-BPM SENSE-BPA6				(J)
40	W107		WHT-11 22AWG SH	N		N		A18-BPM SENSE-BPA5				(J)

16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT
15 FLOAT SHIELDS
8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

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INTRA SHELTER CABLES                                                                          REF DES REPORT
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L !CABLE ASSY !      CABLE WIRING DATA          !                               !            SYSTEM ADDRESS              !        !
I ------------------------------------------------                              !-----------------------------------------LENGTH!
N !REF     !PART!CABLE TYPE-WIRE !  FROM  !  TO  !    SYSTEM FUNCTION/          !       FROM        !        TO           !        !REMARKS
E !DES     ! NO !NO-COLOR-GA-KIND-----------------!       VOLTS-AMPS            !        P1         !        P2           !  FEET  !
#  !        !    !                ! P1 !NT ! P2 !NT !                              !                   !                     !        !
===========================================================================================================================================
 1 W107          WHT-12 22AWG SH     P        P     A05-BPM SENSE-BPA7                                                                (J)
 2 W107          WHT-13 22AWG SH     R        R     A19-BPM SENSE-BPA7                                                                (J)
 3 W107          WHT-14 22AWG SH     S        S     A20-BPM SENSE-BPA7                                                                (J)
 4 W107          WHT-15 22AWG SH     T        T     A21-BPM SENSE-BPA7                                                                (J)
 5 W107          WHT-16 22AWG SH     U        U     A22-BPM SENSE-BPA7                                                                (J)
 6 W107          WHT-17 22AWG SH     V        V     A06-BPM SENSE-BPA8                                                                (J)
 7 W107          WHT-18 22AWG SH     W        W     A23-BPM SENSE-BPA8                                                                (J)
 8 W107          WHT-19 22AWG SH     X        X     A24-BPM SENSE-BPA8                                                                (J)
 9 W107          WHT-20 22AWG SH     Y        Y     A25-BPM SENSE-BPA8                                                                (J)
10 W107          WHT-21 22AWG SH     Z        Z     A42-BPM SENSE-BPA8                                                                (J)
11 W107          WHT-22 22AWG SH    •A       •A     A01-BPM SENSE-BPA8                                                                (J)
12 W107          WHT-23 22AWG SH    •B       •B     3DB  POWER DROP CMD
13 W107          WHT-24 22AWG SH    •C       •C     6DB  POWER DROP CMD
14 W107          WHT-25 22AWG SH    •D       •D     9DB  POWER DROP CMD
15 W107          WHT-26 22AWG SH    •E       •E     12DB POWER DROP CMD
16 W107          WHT-27 22AWG SH    •F       •F     MASTER DC
17 W107          WHT-28 22AWG SH    •G       •G     28V RTN                                                                           (J)
18 W107          WHT-29 22AWG SH    •H       •H     LEFT DC STATUS PWR SPLY                                                           (J)
19 W107          WHT-30 22AWG SH    •I       •I     RIGHT DC STATUS PWR SPLY                                                          (J)
20 W107          BLK-31 22AWG TSP   •J       •J     DPLXR STATUS(+)
21 W107          WHT-31 22AWG TSP   •K       •K     DPLXR STATUS(-)
22 W107          BLK-32 22AWG TSP   •M       •M     DOOR OPEN + INTLK                                                                 (J)
23 W107          WHT-32 22AWG TSP   •N       •N     DOOR OPEN - INTLK                                                                 (J)
24 W107          BLK-33 22AWG TSP   •P       •P     XMTR FLOW +                                                                       (J)
25 W107          WHT-33 22AWG TSP   •Q       •Q     +12VDC                                                                            (J)
26 W107          BLK-34 22AWG TSP   •R       •R     DRIVER SENSE(RF)                                                                  (J)
27 W107          WHT-34 22AWG TSP   •S       •S     RTN SHLD                                                                          (J)
■28 W107          WHT-35 22AWG SH    •T       •T     SPARE
29 W107                                      B 008  INNER SHLD N/C
30 W107                                        015
31
32
33
34 W108                            P1       P2      XMTR INTLK  TR-1 TO RFCU A35J008           A21J016                                 (E)
35 W108          SHLD-2              B        B     INNER SHLD
36 W108          WHT-1  20AWG        C        H     CHASSIS GND
37 W108          BLK-2  20AWG TSP    D        K     INTLK RTN XMTR1                                                                   (J)
38 W108          WHT-2  20AWG TSP    E        J     ANT DEPLOY INTLK XMTR1                                                            (J)
39 W108          WHT-3  20AWG        F        C     INTLK XMTR1 IND                                                                   (J)
40 W108          WHT-4  20AWG        G        D     SPARE
===========================================================================================================================================

15 FLOAT SHIELDS
8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
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Change 1

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INTRA SHELTER CABLES                                                               REF DES REPORT
-----------------------------------------------------------------------------------------------------------------------------
L :CABLE ASSY :        CABLE WIRING DATA              :                              :           SYSTEM ADDRESS              :      :
I ------------------------------------------------------                              :-------------------------------------------LENGTH:
N :REF    :PART:CABLE TYPE-WIRE : FROM  :  TO   :     SYSTEM FUNCTION/        :      FROM        :       TO         :      :REMARKS
E :DES    : NO :NO-COLOR-GA-KIND-----------------------     VOLTS-AMPS          :       P1         :       P2         : FEET :
# :       :    :                : P1 :NT : P2 :NT :                              :                  :                  :      :
=============================================================================================================================
 1 W108          WHT-5  20AWG        H          E      SPARE
 2 W108                                         F 008  N/C
 3 W108                                         G 008  N/C
 4
 5
 6
 7 W109                             CB10               AC POWER                  1A5CB10.9          A35J007                      (E)
 8 W109          WHT-1    8AWG      LD-1      P1 A     208VAC 400HZ PHASE A LFT                                                (A)
 9 W109          WHT-2    8AWG        -2           B   208VAC 400HZ PHASE B LFT
10 W109          WHT-3    8AWG        -3           C   208VAC 400HZ PHASE C LFT
11 W109          WHT-4    8AWG        -4           D   208VAC 400HZ PHASE A RT
12 W109          WHT-5    8AWG        -5           E   208VAC 400HZ PHASE B RT
13 W109          WHT-6    8AWG        -6           F   208VAC 400HZ PHASE C RT
14 W109          WHT-7   12AWG       CB9           G   115VAC 400HZ HOT  AUX
15 W109          WHT-8   12AWG      NBUS           H   115VAC 400HZ NEUT AUX
16 W109          WHT-9    8AWG      GBUS           I   GROUND
17
18
19
20 W110          M17/84-RG223                          REFLECTED RF              A36J001            A13J013                      (J)
21
22
23
24 W111          M17/84-RG223                          FORWARD RF                A36J003            A13J010                      (J)
25
26
27
28 W113          M17/84-RG223                          ANT RF 2                  A36J002            A21J008                      (J)
29
30
31
32 W114          M17/84-RG223                     005  RF DRIVE                  A16J005            A36AR1J001                   (J)
33
34
35
36 W115                             P1        P2       XMTR GATES                A13J012            A36J004                      (J)
37 W115          SHLDS                 B 016    B 016  INNER SHLD
38 W115                                C 008           N/C
39 W115                                D 008           N/C
40 W115                                E 008           N/C
=============================================================================================================================

  8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
 16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT
  5 NOT USED
 INTRA SHELTER CABLES                                                                             REF DES REPORT
-------------------------------------------------------------------------------------------------------------------------------------------
L |CABLE ASSY |     CABLE WIRING DATA             |                         |             SYSTEM ADDRESS                |        |
I ------------------------------------------------                          ---------------------------------------------------LENGTH|
N |REF    |PART|CABLE TYPE-WIRE |  FROM  |   TO   |    SYSTEM FUNCTION/     |     FROM          |        TO             |        |REMARKS
E |DES    | NO |NO-COLOR-GA-KIND-------------------       VOLTS-AMPS        |      P1           |        P2             |  FEET  |
# |       |    |                | P1 |NT | P2 |NT |                         |                   |                       |        |
===========================================================================================================================================
  1 W115                             F 008        N/C
  2 W115                             G 008        N/C
  3 W115                             H 008        N/C
  4 W115                             J 008        N/C
  5 W115                             K 008        N/C
  6 W115                             L 008        N/C
  7 W115                             M 008        N/C
  8 W115                             N 008        N/C
  9 W115                             P 008        N/C
 10 W115                             R 008        N/C
 11 W115                             S 008        N/C
 12 W115                             T 008        N/C
 13 W115                             U 008        N/C
 14 W115                             V 008        N/C
 15 W115        WHT-1  22AWG         W        C   SIGNAL RTN
 16 W115        BLK-2  22AWG TSP     X        D   DUPLEXER GATE(+)
 17 W115        WHT-2  22AWG TSP     Y        E   DUPLEXER GATE(-)
 18 W115        BLK-3  22AWG TSP     Z        F   SPARE
 19 W115        WHT-3  22AWG TSP     *A       G   SPARE
 20 W115        BLK-4  22AWG TSP     *B       H   DRIVER GATE(+)
 21 W115        WHT-4  22AWG TSP     *C       J   DRIVER GATE(-)
 22 W115                                      K 008 N/C
 23
 24
 25
 26 W116                           P1       P2    BPM SENSE                 A13J003               A36J005                                  (E)
 27 W116        SHLDS                B        B 016 INNER SHLD                                                                             (J)
 28 W116                             C 008        N/C
 29 W116                             D 008        N/C
 30 W116                             E 008        N/C
 31 W116                             F 008        N/C
 32 W116                             G 008        N/C
 33 W116                             H 008        N/C
 34 W116                             J 008        N/C
 35 W116                             K 008        N/C
 36 W116                             L 008        N/C
 37 W116                             M 008        N/C
 38 W116                             N 008        N/C
 39 W116                             P 008        N/C
 40 W116                             R 008        N/C
===========================================================================================================================================

 8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT




                                                                          CODE ID NO.  57958       DRAWING NO.  5053204
                                                                                  REV  J                 SHEET        8
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INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY		CABLE WIRING DATA					SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS		LENGTH	REMARKS
	REF DES	PART NO	CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	NT	TO P2	NT		FROM P1	TO P2	FEET	
1	W116			S	008			N/C				
2	W116		WHT-1 22AWG SH	T		C		SIGNAL RTN				(J)
3	W116		WHT-2 22AWG SH	U		D		A07 BPM SENSE-BPA1				(J)
4	W116		WHT-3 22AWG SH	V		E		A27 BPM SENSE-BPA1				(J)
5	W116		WHT-4 22AWG SH	W		F		A28 BPM SENSE-BPA1				(J)
6	W116		WHT-5 22AWG SH	X		G		A29 BPM SENSE-BPA1				(J)
7	W116		WHT-6 22AWG SH	Y		H		A30 BPM SENSE-BPA1				(J)
8	W116		WHT-7 22AWG SH	Z		J		A08 BPM SENSE-BPA2				(J)
9	W116		WHT-8 22AWG SH	*A		K		A31 BPM SENSE-BPA2				(J)
10	W116		WHT-9 22AWG SH	*B		L		A32 BPM SENSE-BPA2				(J)
11	W116		WHT-10 22AWG SH	*C		M		A33 BPM SENSE-BPA2				(J)
12	W116		WHT-11 22AWG SH	*D		N		A34 BPM SENSE-BPA2				(J)
13	W116		WHT-12 22AWG SH	*E		P		A09 BPM SENSE-BPA3				(J)
14	W116		WHT-13 22AWG SH	*F		R		A35 BPM SENSE-BPA3				(J)
15	W116		WHT-14 22AWG SH	*G		S		A36 BPM SENSE-BPA3				(J)
16	W116		WHT-15 22AWG SH	*H		T		A37 BPM SENSE-BPA3				(J)
17	W116		WHT-16 22AWG SH	*I		U		A38 BPM SENSE-BPA3				(J)
18	W116		WHT-17 22AWG SH	*J		V		A10 BPM SENSE-BPA4				(J)
19	W116		WHT-18 22AWG SH	*K		W		A39 BPM SENSE-BPA4				(J)
20	W116		WHT-19 22AWG SH	*M		X		A40 BPM SENSE-BPA4				(J)
21	W116		WHT-20 22AWG SH	*N		Y		A41 BPM SENSE-BPA4				(J)
22	W116		WHT-21 22AWG SH	*P		Z		A42 BPM SENSE-BPA4				(J)
23	W116		WHT-22 22AWG SH	*Q		*A		A02 BPM SENSE-BPA4				(J)
24	W116		WHT-23 22AWG SH	*R		*B		FLTR 1 SELECT				(J)
25	W116		WHT-24 22AWG SH	*S		*C		FLTR 2 SELECT				(J)
26	W116		WHT-25 22AWG SH	*T		*D		FLTR 3 SELECT				(J)
27	W116		WHT-26 22AWG SH	*U		*E		FLTR 4 SELECT				(J)
28	W116		WHT-27 22AWG SH	*V		*F		FLTR 5 SELECT				(J)
29	W116		WHT-28 22AWG SH	*W		*G		DUMMY LOAD SEL				(J)
30	W116		WHT-29 22AWG SH	*X		*H		28VDC				(J)
31	W116		WHT-30 22AWG SH	*Y		*I		FLTR 1 INDICATOR				(J)
32	W116		WHT-31 22AWG SH	*Z		*J		FLTR 2 INDICATOR				(J)
33	W116		WHT-32 22AWG SH	AA		*K		FLTR 3 INDICATOR				(J)
34	W116		WHT-33 22AWG SH	BB		*M		FLTR 4 INDICATOR				(J)
35	W116		WHT-34 22AWG SH	CC		*N		FLTR 5 INDICATOR				(J)
36	W116		WHT-35 22AWG SH	DD		*P		DUM LOAD				
37	W116		WHT-36 22AWG SH	EE		*Q		SELECT RTN				
38	W116		WHT-37 22AWG SH	FF		*R		INPUT SW SENSE				
39	W116		WHT-38 22AWG SH	GG		*S		OUTPUT SW SENSE				
40	W116		WHT-39 22AWG SH	HH		*T		SPARE				

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W116			B	008			INNER SHLD N/C				
2	W116			A	015			UTER SHLD				
3												(J)
4												
5												
6	W117			P1		P2		BPM CONT. TR-2 TO ACU-2	A36J008	A13J002		
7	W117		SHLDS	B	016			INNER SHLD				(J)
8	W117		WHT-1 22AWG SH	C		C		SIGNAL RTN				
9	W117		WHT-2 22AWG SH	D		D		A07 BPM SENSE-BPA5				
10	W117		WHT-3 22AWG SH	E		E		A27 BPM SENSE-BPA5				
11	W117		WHT-4 22AWG SH	F		F		A28 BPM SENSE-BPA5				
12	W117		WHT-5 22AWG SH	G		G		A29 BPM SENSE-BPA5				
13	W117		WHT-6 22AWG SH	H		H		A30 BPM SENSE-BPA5				
14	W117		WHT-7 22AWG SH	J		J		A08 BPM SENSE-BPA6				
15	W117		WHT-8 22AWG SH	K		K		A31 BPM SENSE-BPA6				
16	W117		WHT-9 22AWG SH	L		L		A32 BPM SENSE-BPA6				
17	W117		WHT-10 22AWG SH	M		M		A33 BPM SENSE-BPA6				
18	W117		WHT-11 22AWG SH	N		N		A34 BPM SENSE-BPA6				
19	W117		WHT-12 22AWG SH	P		P		A09 BPM SENSE-BPA7				
20	W117		WHT-13 22AWG SH	R		R		A35 BPM SENSE-BPA7				
21	W117		WHT-14 22AWG SH	S		S		A36 BPM SENSE-BPA7				
22	W117		WHT-15 22AWG SH	T		T		A37 BPM SENSE-BPA7				
23	W117		WHT-16 22AWG SH	U		U		A38 BPM SENSE-BPA7				
24	W117		WHT-17 22AWG SH	V		V		A10 BPM SENSE-BPA8				
25	W117		WHT-18 22AWG SH	W		W		A39 BPM SENSE-BPA8				
26	W117		WHT-19 22AWG SH	X		X		A40 BPM SENSE-BPA8				
27	W117		WHT-20 22AWG SH	Y		Y		A41 BPM SENSE-BPA8				
28	W117		WHT-21 22AWG SH	Z		Z		A42 BPM SENSE-BPA8				
29	W117		WHT-22 22AWG SH	•A		•A		A02 BPM SENSE-BPA8				
30	W117		WHT-23 22AWG SH	•B		•B		3DB POWER DROP CMD				
31	W117		WHT-24 22AWG SH	•C		•C		6Dd POWER DROP CMD				
32	W117		WHT-25 22AWG SH	•D		•D		9DB POWER DROP CMD				
33	W117		WHT-26 22AWG SH	•E		•E		12DB POWER DROP CMD				
34	W117		WHT-27 22AWG SH	•F		•F		MASTER DC				
35	W117		WHT-28 22AWG SH	•G		•G		28V RTN				
36	W117		WHT-29 22AWG SH	•H		•H		LEFT DC STATUS PWR SPLY				(J)
37	W117		WHT-30 22AWG SH	•I		•I		RIGHT DC STATUS PWR SPLY				(J)
38	W117		BLK-31 22AWG TSP	•J		•J		DPLXR STATUS(+)				(J)
39	W117		WHT-31 22AWG TSP	•K		•K		DPLXR STATUS(-)				
40	W117		BLK-32 22AWG TSP	•M		•M		DOOR OPEN +				(J)

16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT
15 FLOAT SHIELDS
8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W117		WHT-32 22AWG TSP	•N		•N		DOOR OPEN -				(J)
2	W117		BLK-33 22AWG TSP	•P		•P		XMIT FLOW +				(J)
3	W117		WHT-33 22AWG TSP	•Q		•Q		FLOW +12V				(J)
4	W117		BLK-34 22AWG TSP	•R		•R		DRIVER SENSE (RF)				(J)
5	W117		WHT-34 22AWG TSP	•S		•S		RTN SHLD				(J)
6	W117		WHT-35 22AWG SH	•T		•T		SPARE				
7	W117					B	008	INNER SHLD N/C				
8	W117						015					
9												
10												
11												
12	W118			P1		P2		XMTR INTLK TR-2 TO RFCU	A36J008	A21J017		(E)
13	W118		SHLD-2	B		B		INNER SHLD				
14	W118		WHT-1 20AWG	C		H		CHASSIS GND				
15	W118		BLK-2 20AWG TSP	D		K		INTLK RTN XMTR 2				(J)
16	W118		WHT-2 20AWG TSP	E		J		ANT DEPLOY INTLK XMTR2				(J)
17	W118		WHT-3 20AWG	F		C		INTLK XMTR2 IND				(J)
18	W118		WHT-4 20AWG	G		D		SPARE				
19	W118		WHT-5 20AWG	H		E		SPARE				
20	W118					F	008	N/C				
21	W118					G	008	N/C				
22												
23												
24												
25	W119			CB12				AC POWER	1A5CB12.11	A36J007		(E)
26	W119		WHT-1 8AWG	LD-1		P1 A		208VAC 400HZ PHASE A LFT				(A)
27	W119		WHT-2 8AWG	-2		B		208VAC 400HZ PHASE B LFT				
28	W119		WHT-3 8AWG	-3		C		208VAC 400HZ PHASE C LFT				
29	W119		WHT-4 8AWG	-4		D		208VAC 400HZ PHASE A RT				
30	W119		WHT-5 8AWG	-5		E		208VAC 400HZ PHASE B RT				
31	W119		WHT-6 8AWG	-6		F		208VAC 400HZ PHASE C RT				
32	W119		WHT-7 12AWG	CB11		G		115VAC 400HZ HOT AUX				
33	W119		WHT-8 12AWG	NBUS		H		115VAC 400HZ NEUT AUX				
34	W119		WHT-9 8AWG	GBUS		I		GROUND				
35												
36												
37												
38	W120		M17/84-RG223					REFLECTED RF	A37J001	A14J013		(J)
39												
40												

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
15 FLOAT SHIELDS

CODE ID NO. 57958
REV J

DRAWING NO. 5053204
SHEET 11

Change 1

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INTRA SHELTER CABLES
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L |CABLE ASSY |       CABLE WIRING DATA            |                            REF DES REPORT
I ---------------------------------------------------------------------------------------------------------------------------
N |REF    |PART|CABLE TYPE-WIRE  | FROM  |  TO    |                       |          SYSTEM ADDRESS            |      |
E |DES    | NO |NO-COLOR-GA-KIND--------------------|  SYSTEM FUNCTION/    |--------------------------------------LENGTH|
# |       |    |                 | P1 |NT | P2 |NT |    VOLTS-AMPS         |      FROM        |      TO          |      |REMARKS
  |       |    |                 |    |   |    |   |                       |       P1         |      P2          | FEET |
*******************************************************************************************************************************
 1
 2
 3
 4 W121        M17/84-RG223                         FORWARD RF              A37J003            A14J010                    (J)
 5
 6
 7
 8 W122                                             OVER TEMP               S1 OVER TEMP SW    A18J008                    (J)
 9 W122        SHLD               P1   015 P2 A     SHIELD GND
10 W122                                       B 008 N/C
11 W122        WHT   22AWG TSP    A           C     OVER TEMP SW +24VDC
12 W122        BLK   22AWG TSP    B           D     +24V RTN
13 W122                           C           E 008 N/C
14 W122                                       F 008 N/C
15
16
17
18 W123        M17/84-RG223                         ANT RF3                 A37J002            A21J009                    (J)
19
20
21
22 W124        M17/84-RG223                         RF DRIVE                A17J005            A37AR1J001                 (J)
23
24
25
26 W125                          P1       P2        XMTR GATES              A14J012            A37J004                    (E)
27 W125        SHLDS              B 016    B 016    INNER SHLD
28 W125                           C 008             N/C
29 W125                           D 008             N/C
30 W125                           E 008             N/C
31 W125                           F 008             N/C
32 W125                           G 008             N/C
33 W125                           H 008             N/C
34 W125                           J 008             N/C
35 W125                           K 008             N/C
36 W125                           L 008             N/C
37 W125                           M 008             N/C
38 W125                           N 008             N/C
39 W125                           P 008             N/C
40 W125                           R 008             N/C
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 8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT
15 FLOAT SHIELDS
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INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W125			S	008			N/C				
2	W125			T	008			N/C				
3	W125			U	008			N/C				
4	W125			V	008			N/C				
5	W125		WHT-1 22AWG	W		C		SIGNAL RTN				
6	W125		BLK-2 22AWG TSP	X		D		DUPLEXER GATE(+)				
7	W125		WHT-2 22AWG TSP	Y		E		DUPLEXER GATE(-)				
8	W125		BLK-3 22AWG TSP	Z		F		SPARE				
9	W125		WHT-3 22AWG TSP	*A		G		SPARE				
10	W125		BLK-4 22AWG TSP	*B		H		DRIVER GATE(+)				
11	W125		WHT-4 22AWG TSP	*C		J		DRIVER GATE(-)				
12	W125					K	008	N/C				
13												
14												
15												
16	W126			P1		P2		BPM SENSE	A14J003	A37J005		(E)
17	W126		SHLDS			B	016	INNER SHLD				
18	W126			C	008			N/C				
19	W126			D	008			N/C				
20	W126			E	008			N/C				
21	W126			F	008			N/C				
22	W126			G	008			N/C				
23	W126			H	008			N/C				
24	W126			J	008			N/C				
25	W126			K	008			N/C				
26	W126			L	008			N/C				
27	W126			M	008			N/C				
28	W126			N	008			N/C				
29	W126			P	008			N/C				
30	W126			R	008			N/C				
31	W126			S	008			N/C				
32	W126		WHT-1 22AWG SH	T		C		SIGNAL RTN				
33	W126		WHT-2 22AWG SH	U		D		A07 BPM SENSE-BPA1				(J)
34	W126		WHT-3 22AWG SH	V		E		A27 BPM SENSE-BPA1				(J)
35	W126		WHT-4 22AWG SH	W		F		A28 BPM SENSE-BPA1				(J)
36	W126		WHT-5 22AWG SH	X		G		A29 BPM SENSE-BPA1				(J)
37	W126		WHT-6 22AWG SH	Y		H		A30 BPM SENSE-BPA1				(J)
38	W126		WHT-7 22AWG SH	Z		J		A08 BPM SENSE-BPA2				(J)
39	W126		WHT-8 22AWG SH	*A		K		A31 BPM SENSE-BPA2				(J)
40	W126		WHT-9 22AWG SH	*B		L		A32 BPM SENSE-BPA2				(J)

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT

CODE ID NO. 57958 DRAWING NO. 5053204
REV J SHEET 13

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W126		WHT-10 22AWG SH	•C		M		A33 BPM SENSE-BPA2				(J)
2	W126		WHT-11 22AWG SH	•D		N		A34 BPM SENSE-BPA2				(J)
3	W126		WHT-12 22AWG SH	•E		P		A09 BPM SENSE-BPA3				(J)
4	W126		WHT-13 22AWG SH	•F		R		A35 BPM SENSE-BPA3				(J)
5	W126		WHT-14 22AWG SH	•G		S		A36 BPM SENSE-BPA3				(J)
6	W126		WHT-15 22AWG SH	•H		T		A37 BPM SENSE-BPA3				(J)
7	W126		WHT-16 22AWG SH	•I		U		A38 BPM SENSE-BPA3				(J)
8	W126		WHT-17 22AWG SH	•J		V		A10 BPM SENSE-BPA4				(J)
9	W126		WHT-18 22AWG SH	•K		W		A39 BPM SENSE-BPA4				(J)
10	W126		WHT-19 22AWG SH	•M		X		A40 BPM SENSE-BPA4				(J)
11	W126		WHT-20 22AWG SH	•N		Y		A41 BPM SENSE-BPA4				(J)
12	W126		WHT-21 22AWG SH	•P		Z		A42 BPM SENSE-BPA4				(J)
13	W126		WHT-22 22AWG SH	•Q		•A		A02 BPM SENSE-BPA4				(J)
14	W126		WHT-23 22AWG SH	•R		•B		FLTR 1 SELECT				(J)
15	W126		WHT-24 22AWG SH	•S		•C		FLTR 2 SELECT				(J)
16	W126		WHT-25 22AWG SH	•T		•D		FLTR 3 SELECT				(J)
17	W126		WHT-26 22AWG SH	•U		•E		FLTR 4 SELECT				(J)
18	W126		WHT-27 22AWG SH	•V		•F		FLTR 5 SELECT				(J)
19	W126		WHT-28 22AWG SH	•W		•G		DUMMY LOAD SEL				(J)
20	W126		WHT-29 22AWG SH	•X		•H		28VDC				(J)
21	W126		WHT-30 22AWG SH	•Y		•I		FLTR 1 INDICATOR				(J)
22	W126		WHT-31 22AWG SH	•Z		•J		FLTR 2 INDICATOR				(J)
23	W126		WHT-32 22AWG SH	AA		•K		FLTR 3 INDICATOR				(J)
24	W126		WHT-33 22AWG SH	BB		•M		FLTR 4 INDICATOR				(J)
25	W126		WHT-34 22AWG SH	CC		•N		FLTR 5 INDICATOR				(J)
26	W126		WHT-35 22AWG SH	DD		•P		DUM LOAD INDICATOR				(J)
27	W126		WHT-36 22AWG SH	EE		•Q		SELECT RTN				
28	W126		WHT-37 22AWG SH	FF		•R		INPUT SW SENSE				
29	W126		WHT-38 22AWG SH	GG		•S		OUTPUT SW SENSE				
30	W126			HH	008	•T	008	N/C				
31	W126			B	008			INNER SHLD N/C				
32	W126				015							
33												
34												
35												
36	W127			P1		P2		BPM CONT. TR-3 TO ACU-3	A37J006	A14J002		(J)
37	W127		SHLDS	B	016			INNER SHLD				
38	W127		WHT-1 22AWG SH	C		C		SIG RTN				(J)
39	W127		WHT-2 22AWG SH	D		D		A03 BPM SENSE-BPA5				(J)
40	W127		WHT-3 22AWG SH	E		E		A11 BPM SENSE-BPA5				(J)

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT
15 FLOAT SHIELDS

INTRA SHELTER CABLES REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W127		WHT-4 22AWG SH	F		F		A12 BPM SENSE-BPA5				(J)
2	W127		WHT-5 22AWG SH	G		G		A13 BPM SENSE-BPA5				(J)
3	W127		WHT-6 22AWG SH	H		H		A14 BPM SENSE-BPA5				(J)
4	W127		WHT-7 22AWG SH	J		J		A04 BPM SENSE-BPA6				(J)
5	W127		WHT-8 22AWG SH	K		K		A15 BPM SENSE-BPA6				(J)
6	W127		WHT-9 22AWG SH	L		L		A16 BPM SENSE-BPA6				(J)
7	W127		WHT-10 22AWG SH	M		M		A17 BPM SENSE-BPA6				(J)
8	W127		WHT-11 22AWG SH	N		N		A18 BPM SENSE-BPA6				(J)
9	W127		WHT-12 22AWG SH	P		P		A05 BPM SENSE-BPA7				(J)
10	W127		WHT-13 22AWG SH	R		R		A19 BPM SENSE-BPA7				(J)
11	W127		WHT-14 22AWG SH	S		S		A20 BPM SENSE-BPA7				(J)
12	W127		WHT-15 22AWG SH	T		T		A21 BPM SENSE-BPA7				(J)
13	W127		WHT-16 22AWG SH	U		U		A22 BPM SENSE-BPA7				(J)
14	W127		WHT-17 22AWG SH	V		V		A06 BPM SENSE-BPA8				(J)
15	W127		WHT-18 22AWG SH	W		W		A23 BPM SENSE-BPA8				(J)
16	W127		WHT-19 22AWG SH	X		X		A24 BPM SENSE-BPA8				(J)
17	W127		WHT-20 22AWG SH	Y		Y		A25 BPM SENSE-BPA8				(J)
18	W127		WHT-21 22AWG SH	Z		Z		A26 BPM SENSE-BPA8				(J)
19	W127		WHT-22 22AWG SH	•A		•A		A01 BPM SENSE-BPA8				(J)
20	W127		WHT-23 22AWG SH	•B		•B		3DB POWER DROP CMD				
21	W127		WHT-24 22AWG SH	•C		•C		6DB POWER DROP CMD				
22	W127		WHT-25 22AWG SH	•D		•D		9DB POWER DROP CMD				
23	W127		WHT-26 22AWG SH	•E		•E		12DB POWER DROP CMD				
24	W127		WHT-27 22AWG SH	•F		•F		MASTER DC.				
25	W127		WHT-28 22AWG SH	•G		•G		28V RTN				(J)
26	W127		WHT-29 22AWG SH	•H		•H		LEFT DC STATUS PWR SPLY				(J)
27	W127		WHT-30 22AWG SH	•I		•I		RIGHT DC STATUS PWR SPLY				(J)
28	W127		BLK-31 22AWG TSP	•J		•J		DPLXR STATUS(+)				
29	W127		WHT-31 22AWG TSP	•K		•K		DPLXR STATUS(-)				
30	W127		BLK-32 22AWG TSP	•M		•M		DOOR OPEN(+)				(J)
31	W127		WHT-32 22AWG TSP	•N		•N		DOOR OPEN(-)				(J)
32	W127		BLK-33 22AWG TSP	•P		•P		XMTR FLOW(+)				(J)
33	W127		WHT-33 22AWG TSP	•Q		•Q		FLOW +12V				(J)
34	W127		BLK-34 22AWG TSP	•R		•R		DRIVER SFNSE (RF)				(J)
35	W127		WHT-34 22AWG TSP	•S		•S		SHLD RTN				(J)
36	W127		WHT-35 22AWG SH	•T		•T		SPARE				
37	W127					B	008	INNER SHLD N/C				
38	W127						015					
39												
40												

15 FLOAT SHIELDS
8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1												
2												
3												
4	W128			P1		P2		XMTR INTLK TR-3 TO RFCU	A37J008	A21J018		(E)
5	W128		SHLD-2	B		B		INNER SHLD				
6	W128		WHT-1 20AWG	C		H		CHASSIS GND				
7	W128		BLK-2 20AWG TSP	D		K		INTLK RTN XMTR3				(J)
8	W128		WHT-2 20AWG TSP	E		J		ANT DEPLOY INTLK XMTR3				(J)
9	W128		WHT-3 20AWG	F		C		XMTR3 IND				(J)
10	W128		WHT-4 20AWG	G		D		SPARE				
11	W128		WHT-5 20AWG	H		E		SPARE				
12	W128					F	008	N/C				
13	W128					G	008	N/C				
14												
15												
16												
17	W129			CB14				AC POWER	1A5CB14,13	A37J007		(E)
18	W129		WHT-1 8AWG	LD-1		P1 A		208VAC 400HZ PHASE A LFT				(A)
19	W129		WHT-2 8AWG	-2		B		208VAC 400HZ PHASE B LFT				
20	W129		WHT-3 8AWG	-3		C		208VAC 400HZ PHASE C LFT				
21	W129		WHT-4 8AWG	-4		D		208VAC 400HZ PHASE A RT				
22	W129		WHT-5 8AWG	-5		E		208VAC 400HZ PHASE B RT				
23	W129		WHT-6 8AWG	-6		F		208VAC 400HZ PHASE C RT				
24	W129		WHT-7 12AWG	CB13		G		115VAC 400HZ HOT AUX				
25	W129		WHT-8 12AWG	NBUS		H		115VAC 400HZ NEUT AUX				
26	W129		WHT-9 8AWG	GBUS		I		GROUND				
27	W130		5054637-1 COAX		009			RF OUTPUT	A35J010	A10J004		COAX (E)
28	W131		5054637-2 COAX		009			RF OUTPUT	A36J010	A10J005		COAX (E)
29	W132		5054637-3 COAX		009			RF OUTPUT	A37J010	A10J006		COAX (E)
30	W133		5054414-9 COAX		009			DUMMY LOAD RF	A11J008	AT2J1		COAX (J)
31	W134		5054414-10 COAX		009			DUMMY LOAD RF	A11J007	AT1J1		COAX (J)
32												
33												
34												
35	W138					FL1-		AC POWER ACU RACK	1A5CB20	A9FL1		(J)
36	W138		BLK-1 12AWG	CB20		E1		115VAC 400HZ HOT				
37	W138		WHT-2 12AWG	NBUS		E2		115VAC 400HZ NEUT				
38	W138		GRN-3 12AWG	GBUS		E8		115VAC 400HZ GND				
39												
40												

9 CABLE IS PURCHASED ASSEMBLY REQUIRING NO FABRICATION
8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM INT	TO P2	TO INT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1												
2												
3												
4	W139					FL1-		AC POWER RCVR RACK	1A5CB19	A19FL1		(E)
5	W139		BLK-1 12AWG	CB19		E1		115VAC 400HZ HOT				
6	W139		WHT-2 12AWG	NBUS		E2		115VAC 400HZ NEUT				
7	W139		GRN-3 12AWG	GBUS		E8		115VAC 400HZ GND				
8												
9												
10												
11	W140					FL1-		AC POWER OPERATOR RACK	1A5CB17	A8FL1		(J)
12	W140		BLK-1 12AWG	CB17		E1		115VAC 400HZ HOT				
13	W140		WHT-2 12AWG	NBUS		E2		115VAC 400HZ NEUT				
14	W140		GRN-3 12AWG	GBUS		E8		115VAC 400HZ GND				
15												
16												
17												
18	W141					FL1-		AC POWER COMM RACK	1A5CB21	1FL1		(D)
19	W141		BLK-1 12AWG	CB21		E1		115VAC 400HZ HOT				
20	W141		WHT-2 12AWG	NBUS		E2		115VAC 400HZ NEUT				
21	W141		GRN-3 12AWG	GBUS		E8		115VAC 400HZ GND				
22												
23												
24												
25	W142					FL2-		AC POWER COMPUTER PROC	1A5CB18	1FL2		(D)
26	W142		BLK-1 12AWG	CB18		E1		115VAC 400HZ HOT				
27	W142		WHT-2 12AWG	NBUS		E2		115VAC 400HZ NEUT				
28	W142		GRN-3 12AWG	GBUS		E8		115VAC 400HZ GND				
29												
30												
31												
32	W145			CB15				AIR CONDITIONER AC	1A5CB15	1A11A1J01B		(J)
33	W145		WHT-1 8AWG	LD-1		P1	A	208VAC 400HZ PHASE A				(A)
34	W145		WHT-2 8AWG	LD-2			B	208VAC 400HZ PHASE B				
35	W145		WHT-3 8AWG	LD-3			C	208VAC 400HZ PHASE C				
36	W145		WHT-4 8AWG	NBUS			D	208VAC 400HZ NEUT BUS				
37												
38												
39												
40	W146							24VDC PWR	1A5C88	A21J022		(J)

INTRA SHELTER CABLES

REF DES REPORT

LINE	CABLE ASSY		CABLE WIRING DATA						SYSTEM ADDRESS			
N E #	REF DES	PART NO	CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	FROM P1	TO P2	LENGTH FEET	REMARKS
1	W146					P1 A	008	SHIELD GND N/C				(A)
2	W146		WHT-1 12AWG	CB8		B		+24VDC				(J)
3	W146		BLK-2 12AWG	RTN		C		RTN				(J)
4	W146		GRN-3 12AWG	GBUS		D		GROUND BUS				
5												
6												
7												
8	W147			CB5-				24V KG KEYHOLD	1A5CB5	1A5J025		(J)
9	W147		WHT-1 20AWG TP	LD		P1 A		AUX POWER +24VDC				
10	W147		BLK-1 20AWG TP	RTN		B		AUX POWER RETURN				
11	W147					C	008	N/C				
12												
13												
14												
15	W148		M17/84-RG223					RF	A30 RF OUT	A18J001		COAX (E)
16	W150		5054414-8 COAX		009			LP ANT RF	A10J003	1A5J011		COAX (A)
17												
18												
19												
20	W151			P1		P2		AMSU CONTROL	A10J002	A21J019		(J)
21	W151			B	008	B	006	INNER SHLD N/C				
22	W151			C	008	C	008	N/C				
23	W151			D	008	D	008	N/C				
24	W151			E	008	E	008	N/C				
25	W151			F	008	F	008	N/C				
26	W151			G	008	G	008	N/C				
27	W151			H	008	H	008	N/C				
28	W151			J	008	J	008	N/C				
29	W151			K	008	K	008	N/C				
30	W151			L	008	L	008	N/C				
31	W151			M	008	M	008	N/C				
32	W151			N	008	N	008	N/C				
33	W151			P	008	P	008	N/C				
34	W151			R	008	R	008	N/C				
35	W151			S	008	S	008	N/C				
36	W151			T	008	T	008	N/C				
37	W151			U	008	U	008	N/C				
38	W151			V	008	V	008	N/C				
39	W151			W	008	W	008	N/C				
40	W151			X	008	X	008	N/C				

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
9 CABLE IS PURCHASED ASSEMBLY REQUIRING NO FABRICATION

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W151			Y	008	Y	008	N/C				
2	W151			Z	008	Z	008	N/C				
3	W151			•A	008	•A	008	N/C				
4	W151		WHT-1 22AWG	•B		•B		SIGNAL RTN				
5	W151		WHT-2 22AWG	•C		•C		SW1-1 DRIVE				
6	W151		WHT-3 22AWG	•D		•D		SW1-2 DRIVE				
7	W151		WHT-4 22AWG	•E		•E		SW2-1 DRIVE				
8	W151		WHT-5 22AWG	•F		•F		SW2-2 DRIVE				
9	W151		WHT-6 22AWG	•G		•G		SPARE DRIVE				
10	W151		WHT-7 22AWG	•H		•H		SW3-1 DRIVE				
11	W151		WHT-8 22AWG	•I		•I		SW3-2 DRIVE				
12	W151		WHT-9 22AWG	•J		•J		SPARE DRIVE				
13	W151		WHT-10 22AWG	•K		•K		SW4-1 DRIVE				
14	W151		WHT-11 22AWG	•M		•M		SW4-2 DRIVE				
15	W151		WHT-12 22AWG	•N		•N		SW5-1 DRIVE				
16	W151		WHT-13 22AWG	•P		•P		SW5-2 DRIVE				
17	W151		WHT-14 22AWG	•Q		•Q		SW5-3 DRIVE				
18	W151		WHT-15 22AWG	•R		•R		SW5-4 DRIVE				
19	W151		WHT-16 22AWG	•S		•S		SW5-5 DRIVE				
20	W151		WHT-17 22AWG	•T		•T		SW1-1 IND				
21	W151		WHT-18 22AWG	•U		•U		SW1-2 IND				
22	W151		WHT-19 22AWG	•V		•V		SW2-2 IND				(J)
23	W151		WHT-20 22AWG	•W		•W		SW2-1 IND				(J)
24	W151		WHT-21 22AWG	•X		•X		SPARE IND				
25	W151		WHT-22 22AWG	•Y		•Y		SW3-2 IND				(J)
26	W151		WHT-23 22AWG	•Z		•Z		SW3-1 IND				(J)
27	W151		WHT-24 22AWG	AA		AA		SPARE IND				
28	W151		WHT-25 22AWG	BB		BB		SW4-1 IND				
29	W151		WHT-26 22AWG	CC		CC		SW4-2 IND				
30	W151		WHT-27 22AWG	DD		DD		SW5-1 IND				
31	W151		WHT-28 22AWG	EE		EE		SW5-2 IND				
32	W151		WHT-29 22AWG	FF		FF		SW5-3 IND				
33	W151		WHT-30 22AWG	GG		GG		SW5-4 IND				
34	W151		WHT-31 22AWG	HH		HH		SW5-5 IND				
35	W152		5054963-1 COAX				009	COUPLER 1-C	A10J007	A11J001		COAX (J)
36	W153		5054963-7 COAX				009	COUPLER 1-A	A10J008	A11J003		COAX
37	W154		5054963-3 COAX				009	COUPLER 2-A	A10J009	A11J005		COAX
38	W155		5054963-3 COAX				009	COUPLER 2-C	A10J010	A11J006		COAX
39	W156		5054963-6 COAX				009	COUPLER 2-B	A10J011	A11J004		COAX
40	W157		5054963-1 COAX				009	COUPLER 1-B	A10J012	A11J002		COAX

9 CABLE IS PURCHASED ASSEMBLY REQUIRING NO FABRICATION
8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

CODE ID NO. 57958 DRAWING NO. 5053204
REV J SHEET 19

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INTRA SHELTER CABLES
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                                                                                  REF DES REPORT
L :CABLE ASSY :      CABLE WIRING DATA                  :
I ------------------------------------------------------ :                              : SYSTEM ADDRESS                       :
N :REF    :PART:CABLE TYPE-WIRE : FROM  :  TO   :                            --------------------------------------------LENGTH:
E :DES    : NO :NO-COLOR-GA-KIND-----------------:  SYSTEM FUNCTION/        :   FROM         :     TO          :      :REMARKS
# :       :    :                : P1 :NT : P2 :NT :     VOLTS-AMPS          :    P1          :     P2          : FEET :
***************************************************************************************************************************************
 1
 2
 3
 4 W159                        P1                 TR-1 FLOW SW
 5 W159                          B 008            INNER SHLD             A12J007          W159S1                     NOTE 014 (J)
 6 W159                          C 008            N/C
 7 W159                          D 008            N/C
 8 W159                          E 008            N/C
 9 W159                          F 008            N/C
10 W159                          G 008            N/C
11 W159         RED    18AWG     H       S-NC     XMTR FLOW(-)
12 W159         BLK    18AWG     J       S-C      XMTR FLOW(+)
13 W159         ORN    18AWG     K       S-NO     FLOW +12V
14
15
16
17 W160                        P1      P2         AUDIO, ACU1
18 W160         SHLDS            B 016    B 016 INNER SHLD             A20J012          A12J008                           (J)
19 W160         BLK-1  24AWG TSP C        C     SPARE
20 W:60         WHT-1  24AWG TSP D        D     SPARE
21 W160         BLK-2  24AWG TSP E        E     SPARE
22 W160         WHT-2  24AWG TSP F        F     SPARE
23 W160         WHT-3  22AWG     G        G     SIGNAL RTN
24 W160         BLK-4  24AWG TSP H        H     RCVR AUDIO(+)
25 W160         WHT-4  24AWG TSP J        J     RCVR AUDIO(-)
26 W160         BLK-5  24AWG TSP K        K     OPR AUDIO(+)
27 W160         WHT-5  24AWG TSP L        L     OPR AUDIO(-)
28 W160         BLK-6  24AWG TSP M        M     BACKUP GATE(+)
29 W160         WHT-6  24AWG TSP N        N     BACKUP GATE(-)
30 W160         BLK-7  24AWG TSP P        P     JAM GATE(+)
31 W160         WHT-7  24AWG TSP R        R     JAM GATE(-)
32 W160         BLK-8  24AWG TSP S        S     BASIC GATE(+)
33 W160         WHT-8  24AWG TSP T        T     BASIC GATE(-)
34 W160         BLK-9  24AWG TSP U        U     :XC DELAY GATE(+)
35 W160         WHT-9  24AWG TSP V        V     :XC DELAY GATE(-)
36
37
38
39 W161                        P1  006 P2         RCU BUS                A24J002          A32J003
40 W161                          B 008    B 008 INNER SHLD N/C                                                              (J)
***************************************************************************************************************************************

 8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT
14 CABLE IS VFE
 6 CABLE W161 IS PREFABRICATED ON P1,P3,P5 AND P7 ENDS OF CABLE HARNESS
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INTRA SHELTER CABLES                                                                    REF DES REPORT
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L |CABLE ASSY |      CABLE WIRING DATA             |                         |       SYSTEM ADDRESS          |       |
I ------------------------------------------------|                         |-------------------------------|LENGTH | REMARKS
N |REF      |PART|CABLE TYPE-WIRE |  FROM  |  TO  |  SYSTEM FUNCTION/        |    FROM       |     TO        |       |
E |DES      | NO |NO-COLOR-GA-KIND-----------------|     VCLTS-AMPS           |     P1        |     P2        | FEET  |
# |         |    |                | P1 |NT | P2 |NT|                         |               |               |       |
==============================================================================================================================
 1 W161          BLK-22 24AWGTP     C         C      BACKUP (+)                                                           (C)
 2 W161          WHT-22 24AWGTP     D         D      BACKUP (-)                                                           (C)
 3 W161                             E 008     E 008  N/C
 4 W161                             F 008     F 008  N/C
 5 W161                             G 003     G 008  N/C
 6 W161                             H 008     H 008  N/C
 7 W161                             J 008     J 008  N/C
 8 W161                             K 008            N/C
 9 W161                             L 008            N/C
10 W161                             M 008            N/C
11 W161                             N 008            N/C
12 W161                             P 008            N/C
13 W161          WHT-1  24AWG       R         R 017  SIGNAL RTN
14 W161          BLK-2  24AWGTP     S         S 017  RCU DATA(+)
15 W161          WHT-2  24AWGTP     T         T 017  RCU DATA(-)
16 W161          BLK-3  24AWGTP     U         U 017  RCU CLK(+)                                                           (J)
17 W161          WHT-3  24AWGTP     V         V 017  RCU CLK(-)                                                           (J)
18 W161          JUMPER TO N                  K 011  CABLE INTLK*                                                         (J)
19 W161          JUMPER TO P                  L 011  BCD ADDR 20                                                          (J)
20 W161                                       M 008  BCD ADDRESS 1 N/C
21 W161          JUMPER TO K                  N 011  BCD ADDRESS 2
22 W161          JUMPER TO L                  P 011  BCD ADDRESS 4                                                        (D)
23 W161                          P3   006             INNER SHLD N/C          A20J008
24 W161                             B 008            N/C
25 W161                             C 008            N/C
26 W161                             D 008            N/C
27 W161                             E 008            N/C
28 W161                             F 008            N/C
29 W161                             G 008            N/C
30 W161                             H 008            N/C
31 W161                             J 008            N/C                                                                  (J)
32 W161          JUMPER TO M        K 011            CA INTLK*                                                            (J)
33 W161          JUMPER TO P        L 011            BCD ADDR 20
34 W161          JUMPER TO K        M 011            BCD ADDRESS 1
35 W161                             N 008            BCD ADDRESS 2 N/C
36 W161          JUMPER TO L        P 011            BCD ADDRESS 4
37 W161          WHT-4  24AWG       R 017     R 017  SIGNAL RTN
38 W161          BLK-5  24AWG TP    S 017     S 017  RCU DATA(+)
39 W161          WHT-5  24AWG TP    T 017     T 017  RCU DATA(-)
40 W161          BLK-6  24AWG TP    U 017     U 017  RCU CLK INPUT(+)
==============================================================================================================================

 3 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
17 DAISY-CHAIN CIRCUIT REQUIRES TWO(2) WIRES BE TERM. IN DESIGNATED        CONTACTS
11 INSTALL JUMPERS BETWEEN PINS INDICATED
 5 CABLE W161 IS PREFABRICATED ON P1,P3,P5 AND P7 ENDS OF CABLE HARNESS
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INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	NT	TO P2	NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W161		WHT-6 24AWG TP	V	017	V	017	RCU CLK INPUT(-)				
2	W161					P4						
3	W161					B	008	INNER SHLD N/C		A21J013		(D)
4	W161					C	008	N/C				
5	W161					D	008	N/C				
6	W161					E	008	N/C				
7	W161					F	008	N/C				
8	W161					G	008	N/C				
9	W161					H	008	N/C				
10	W161					J	008	N/C				
11	W161		JUMPER TO P			K	011	CA INTLK*				
12	W161					L	008	BCD ADDR 20				(J)
13	W161					M	008	BCD ADDRESS 1 N/C				(J)
14	W161					N	008	BCD ADDRESS 2 N/C				
15	W161		JUMPER TO K			P	011	BCD ADDRESS 4				
16	W161		WHT-7 24AWG	R	017	R	017	SIGNAL RTN				
17	W161		BLK-8 24AWG TP	S	017	S	017	RCU DATA(+)				
18	W161		WHT-8 24AWG TP	T	017	T	017	RCU DATA(-)				
19	W161		BLK-9 24AWG TP	U	017	U	017	RCU CLK INPUT(+)				
20	W161		WHT-9 24AWG TP	V	017	V	017	RCU CLK INPUT(-)				(J)
21	W161			P5	006				A12J004			(J)
22	W161			B	008			INNER SHLD N/C				(J)
23	W161			C	008			N/C				
24	W161			D	008			N/C				
25	W161			E	008			N/C				
26	W161			F	008			N/C				
27	W161			G	008			N/C				
28	W161			H	008			N/C				
29	W161			J	008			N/C				
30	W161		JUMPER TO M	K	011			PROG 01				
31	W161			L	008			PROG 02 N/C				
32	W161		JUMPER TO K	M	011			BCD ADDRESS 1				
33	W161			N	008			BCD ADDRESS 2 N/C				
34	W161			P	008			BCD ADDRESS 4 N/C				
35	W161		WHT-10 24AWG	R	017	R	017	CABLE INTLK*				
36	W161		BLK-11 24AWG TP	S	017	S	017	RCU DATA(+)				(J)
37	W161		WHT-11 24AWG TP	T	017	T	017	RCU DATA(-)				
38	W161		BLK-12 24AWG TP	U	017	U	017	RCU CLOCK(+)				
39	W161		WHT-12 24AWG TP	V	017	V	017	RCU CLOCK(-)				
40	W161					P6				A13J004		(J)

17 DAISY-CHAIN CIRCUIT REQUIRES TWO(2) WIRES BE TERM. IN DESIGNATED CONTACTS
8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
11 INSTALL JUMPERS BETWEEN PINS INDICATED
6 CABLE W161 IS PREFABRICATED ON P1,P3,P5 AND P7 ENDS OF CABLE HARNESS

INTRA SHELTER CABLES

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W161					B	008	INNER SHLD N/C				
2	W161					C	008	N/C				
3	W161					D	008	N/C				
4	W161					E	008	N/C				
5	W161					F	008	N/C				
6	W161					G	008	N/C				
7	W161					H	008	N/C				
8	W161					J	008	N/C				
9	W161		JUMPER TO N			K	011	PROG 01				
10	W161					L	008	PROG 02 N/C				
11	W161					M	008	BCD ADDRESS 1 N/C				
12	W161		JUMPER TO K			N	011	BCD ADDRESS 2				
13	W161					P	008	BCD ADDRESS 4 N/C				
14	W161		WHT-13 24AWG	R	017	R	017	CABLE INTLK*				(J)
15	W161		BLK-14 24AWG TP	S	017	S	017	RCU DATA(+)				
16	W161		WHT-14 24AWG TP	T	017	T	017	RCU DATA(-)				
17	W161		BLK-15 24AWG TP	U	017	U	017	RCU CLOCK(+)				
18	W161		WHT-15 24AWG TP	V	017	V	017	RCU CLOCK(-)				
19	W161			P7	006				A14J004			(J)
20	W161			B	008			INNER SHLD N/C				
21	W161			C	008			N/C				
22	W161			D	008			N/C				
23	W161			E	008			N/C				
24	W161			F	008			N/C				
25	W161			G	008			N/C				
26	W161			H	008			N/C				
27	W161			J	008			N/C				
28	W161		JUMPER TO M	K	011			PROG 01				
29	W161		JUMPER TO N	L	011			PROG 02				
30	W161		JUMPER TO K	M	011			BCD ADDRESS 1				
31	W161		JUMPER TO L	N	011			BCD ADDRESS 2				
32	W161			P	008			BCD ADDRESS 4 N/C				
33	W161		WHT-16 24AWG	R	017	R	017	CABLE INTLK*				(J)
34	W161		BLK-17 24AWG TP	S	017	S	017	RCU DATA(+)				
35	W161		WHT-17 24AWG TP	T	017	T	017	RCU DATA(-)				
36	W161		BLK-18 24AWG TP	U	017	U	017	RCU CLOCK(+)				
37	W161		WHT-18 24AWG TP	V	017	V	017	RCU CLOCK(-)				
38	W161					P8				A19J001		(D)
39	W161					B	008	INNER SHLD N/C				
40	W161					C	008	N/C				

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
17 DAISY-CHAIN CIRCUIT REQUIRES TWO(2) WIRES BE TERM. IN DESIGNATED CONTACTS
11 INSTALL JUMPERS BETWEEN PINS INDICATED
6 CABLE W161 IS PREFABRICATED ON P1,P3,P5 AND P7 ENDS OF CABLE HARNESS

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W161					D	008	N/C				
2	W161					E	008	N/C				
3	W161					F	008	N/C				
4	W161					G	008	N/C				
5	W161					H	008	N/C				
6	W161					J	008	N/C				
7	W161					K	008	N/C				
8	W161					L	008	N/C				
9	W161					M	008	N/C				
10	W161					N	008	N/C				
11	W161					P	008	N/C				
12	W161		WHT-19 24AWG	R	017	R		CABLE INTLK*				
13	W161		BLK-20 24AWG TP	S	017	S		RCU DATA(+)				(J)
14	W161		WHT-20 24AWG TP	T	017	T		RCU DATA(-)				
15	W161		BLK-21 24AWG TP	U	017	U		RCU CLOCK(+)				
16	W161		WHT-21 24AWG TP	V	017	V		RCU CLOCK(-)				
17												
18												
19												
20	W162		M17/84-RG223					UNLEVELED RF VCA	A15J003	A12J005		(J)
21												
22												
23												
24	W163		M17/84-RG223					LEVELED RF VCA	A12J006	A15J006		(J)
25												
26												
27												
28	W164		M17/84-RG223					REFERENCE RF	A15J009	A12J009		(J)
29												
30												
31												
32	W165			P1		P2		EXCITER CONTROL	A12J011	A15J002		(J)
33	W165		SHLD-4,5,6,12,13	B	016	B	016	INNER SHLD				
34	W165			C	008	C	008	N/C				
35	W165			D	008	D	008	N/C				
36	W165			E	008	E	008	N/C				
37	W165			F	008	F	008	N/C				
38	W165			G	008	G	008	N/C				
39	W165			H	008	H	008	N/C				
40	W165		BLK-1 24AWG TP	J		J		SPARE				

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

17 DAISY-CHAIN CIRCUIT REQUIRES TWO(2) WIRES BE TERM. IN DESIGNATED CONTACTS

16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT

CODE ID NO. 57958 DRAWING NO. 5053204
REV J SHEET 24

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM INT	TO P2	TO INT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W165		WHT-1 24AWG TP	K		K		SPARE				
2	W165		BLK-2 24AWG TP	L		L		SPARE				
3	W165		WHT-2 24AWG TP	M		M		SPARE				
4	W165		WHT-3 22AWG	N		N		SIG RTN				
5	W165		BLK-4 24AWG TSP	P		P		AM AUDIO(+)				
6	W165		WHT-4 24AWG TSP	R		R		AM AUDIO(-)				
7	W165		BLK-5 24AWG TSP	S		S		FM VIDEO(+)				
8	W165		WHT-5 24AWG TSP	T		T		FM VIDEO(-)				
9	W165		BLK-6 24AWG TSP	U		U		SS VIDEO(+)				(J)
10	W165		WHT-6 24AWG TSP	V		V		SS VIDEO(-)				(J)
11	W165		BLK-7 24AWG TP	W		W		AM BIAS (+)				(J)
12	W165		WHT-7 24AWG TP	X		X		AM BIAS (-)				(J)
13	W165		BLK-8 24AWG TP	Y		Y		FM SEL(-)				(J)
14	W165		WHT-8 24AWG TP	Z		Z		FM SEL(+)				(J)
15	W165		BLK-9 24AWG TP	•A		•A		SS SP ENBL(+)				(J)
16	W165		WHT-9 24AWG TP	•B		•B		SS SP ENBL(-)				(J)
17	W165		BLK-10 24AWG TP	•C		•C		AFC ENBL(+)				(J)
18	W165		WHT-10 24AWG TP	•D		•D		AFC ENBL(-)				(J)
19	W165		BLK-11 24AWG TP	•E		•E		LSB SEL(+)				
20	W165		WHT-11 24AWG TP	•F		•F		LSB SEL(-)				
21	W165		BLK-12 24AWG TSP	•G		•G		EXC DELAY GATE(+)				
22	W165		WHT-12 24AWG TSP	•H		•H		EXC DELAY GATE(-)				
23	W165		BLK-13 24AWG TSP	•I		•I		EXC XMTR GATE(+)				(J)
24	W165		WHT-13 24AWG TSP	•J		•J		EXC XMTR GATE(-)				(J)
25	W165		BLK-14 24AWG TP	•K		•K		DSB SEL(+)				
26	W165			•M	008	•M	008	N/C				
27	W165		WHT-14 24AWG TP	•N		•N		DSB SEL(-)				
28	W165		BLK-15 24AWG TP	•P		•P		PFSK SEL(+)				
29	W165		WHT-15 24AWG TP	•Q		•Q		PFSK SEL(-)				
30	W165			•R	008	•R	008	N/C				
31												
32												
33												
34	W166		M17/84-RG223					BITE RF	A21J010	A15J008		(F)
35												
36												
37												
38	W167		M17/84-RG223					NBIF 2	A23J002	A15J010		(J)
39												
40												

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1												
2												
3												
4	W168		M17/84-RG223					REFERENCE 5 MHZ	A25J017	A15J004		(J)
5												
6												
7												
8	W169		M17/84-RG223					L.O. RCVK STEP	A25J013	A15J007		(J)
9												
10												
11												
12	W172			P1				TR-2 FLOW SW	A13J007	W172S1		NOTE 014 (E)
13	W172			B	008			INNER SHLD				
14	W172			C	008			N/C				
15	W172			D	008			N/C				
16	W172			E	008			N/C				
17	W172			F	008			N/C				
18	W172			G	008			N/C				
19	W172		RED 18AWG	H		S-NC		XMTR FLOW(-)				
20	W172		BLK 18AWG	J		S-C		XMTR FLOW(+)				
21	W172		ORG 18AWG	K		S-NO		FLOW +12V				
22												
23												
24												
25	W173			P1		P2		AUDIO ACU2	A20J013	A13J008		(J)
26	W173		SHLDS	B	016	B	016	INNER SHLD				
27	W173		BLK-1 24AWG TSP	C		C		SPARE				
28	W173		WHT-1 24AWG TSP	D		D		SPARE				
29	W173			E	008	E	008	N/C				
30	W173		WHT-2 22AWG	F		G		SIGNAL RTN				
31	W173		BLK-3 24AWG TSP	G		H		RCVR AUDIO(+)				
32	W173		WHT-3 24AWG TSP	H		J		RCVR AUDIO(-)				
33	W173		BLK-4 24AWG TSP	J		K		OPR AUDIO(+)				(J)
34	W173		WHT-4 24AWG TSP	K		L		OPR AUDIO(-)				(J)
35	W173		BLK-5 24AWG TSP	L		M		BACKUP GATE(+)				
36	W173		WHT-5 24AWG TSP	M		N		BACKUP GATE(-)				
37	W173		BLK-6 24AWG TSP	N		P		JAM GATE(+)				
38	W173		WHT-6 24AWG TSP	P		R		JAM GATE(-)				
39	W173		BLK-7 24AWG TSP	R		S		BASIC GATE(+)				
40	W173		WHT-7 24AWG TSP	S		T		BASIC GATE(-)				

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT
14 CABLE IS VFE

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W173		BLK-8 24AWG TSP	T		U		EXC DELAY GATE(+)				
2	W173		WHT-8 24AWG TSP	U		V		EXC DELAY GATE(-)				
3	W173					F	008	N/C				
4												
5												
6												
7	W174		M17/84-RG223					VCA UNLEVELED RF	A16J003	A13J005		(J)
8												
9												
10												
11	W175		M17/84-RG223					VCA LEVELED RF	A13J006	A16J006		(J)
12												
13												
14												
15	W176		M17/84-RG223					REFERENCE RF	A16J009	A13J009		(J)
16												
17												
18												
19	W177			P1		P2		EXCITER CONTROL	A13J011	A16J002		(J)
20	W177		SHLD-4,5,6,12,13	B	016	B	016	INNER SHLD				
21	W177			C	008	C	008	N/C				
22	W177			D	008	D	008	N/C				
23	W177			E	008	E	008	N/C				
24	W177			F	008	F	008	N/C				
25	W177			G	008	G	008	N/C				
26	W177			H	008	H	008	N/C				
27	W177		BLK-1 24AWG TP	J		J		SPARE				
28	W177		WHT-1 24AWG TP	K		K		SPARE				
29	W177		BLK-2 24AWG TP	L		L		SPARE				
30	W177		WHT-2 24AWG TP	M		M		SPARE				
31	W177		WHT-3 22AWG	N		N		SIG RTN				
32	W177		BLK-4 24AWG TSP	P		P		AM AUDIO(+)				
33	W177		WHT-4 24AWG TSP	R		R		AM AUDIO(-)				
34	W177		BLK-5 24AWG TSP	S		S		FM VIDEO(+)				
35	W177		WHT-5 24AWG TSP	T		T		FM VIDEO(-)				
36	W177		BLK-6 24AWG TSP	U		U		SS SP VIDEO(+)				(J)
37	W177		WHT-6 24AWG TSP	V		V		SS SP VIDEO(-)				(J)
38	W177		BLK-7 24AWG TP	W		W		AM BIAS (+)				(J)
39	W177		WHT-7 24AWG TP	X		X		AM BIAS (-)				(J)
40	W177		BLK-8 24AWG TP	Y		Y		FM SEL(-)				(J)

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W177		WHT-8 24AWG TP	Z		Z		FM SEL(+)				(J)
2	W177		BLK-9 24AWG TP	*A		*A		SS SP ENBL (+)				(J)
3	W177		WHT-9 24AWG TP	*B		*B		SS SP ENBL (-)				(J)
4	W177		BLK-10 24AWG TP	*C		*C		AFC ENBL (+)				(J)
5	W177		WHT-10 24AWG TP	*D		*D		AFC ENBL (-)				(J)
6	W177		BLK-11 24AWG TP	*E		*E		LSB SEL(+)				
7	W177		WHT-11 24AWG TP	*F		*F		LSB SEL(-)				
8	W177		BLK-12 24AWG TSP	*G		*G		EXC DELAY GATE(+)				
9	W177		WHT-12 24AWG TSP	*H		*H		EXC DELAY GATE(-)				
10	W177		BLK-13 24AWG TSP	*I		*I		EXC XMTR GATE(+)				(J)
11	W177		WHT-13 24AWG TSP	*J		*J		EXC XMTR GATE(-)				(J)
12	W177		BLK-14 24AWG TP	*K		*K		DSB SEL(+)				
13	W177			*M	008	*M	008	N/C				
14	W177		WHT-14 24AWG TP	*N		*N		DSB SEL(-)				
15	W177		BLK-15 24AWG TP	*P		*P		PFSK SEL(+)				
16	W177		WHT-15 24AWG TP	*Q		*Q		PFSK SEL(-)				
17	W177			*R	008	*R	008	N/C				
18												
19												
20												
21	W178		M17/84-RG223					BITE RF	A21J011	A16J008		(J)
22												
23												
24												
25	W179		M17/84-RG223					NBIF 2	A23J003	A16J010		(J)
26												
27												
28												
29	W180		M17/84-RG223					REFERENCE 5 MHZ	A25J018	A16J004		(J)
30												
31												
32												
33	W181		M17/84-RG223					L.O. RCVR STEP	A25J014	A16J007		(J)
34												
35												
36												
37	W184			P1				TR-3 FLOW SW	A14J007	W184S1		NOTE 014 (E)
38	W184			B	008			INNER SHLD				
39	W184			C	008			N/C				
40	W184			D	008			N/C				

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
14 CABLE IS VFE

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W184			E	008			N/C				
2	W184			F	008			N/C				
3	W184			G	008			N/C				
4	W184		RED 18AWG	H		S-NC		XMTR FLOW(-)				
5	W184		BLK 18AWG	J		S-C		XMTR FLOW(+)				
6	W184		ORG 18AWG	K		S-NO		FLOW +12V				
7												
8												
9												
10	W185			P1		P2		AUDIO ACU3	A20J014	A14J008		(J)
11	W185		SHLDS	B	016	B	016	INNER SHLD				
12	W185		BLK-1 24AWG TSP	K		C		SPARE				
13	W185		WHT-1 24AWG TSP	L		D		SPARE				
14	W185		BLK-2 24AWG TSP	M		E		SPARE				
15	W185		WHT-2 24AWG TSP	N		F		SPARE				
16	W185			C	008			N/C				
17	W185			D	008			N/C				
18	W185			E	008			N/C				
19	W185			F	008			N/C				
20	W185			G	008			N/C				
21	W185			H	008			N/C				
22	W185			J	008			N/C				
23	W185		WHT-3 22AWG	P		G		SIGNAL RTN				
24	W185		BLK-4 24AWG TSP	R		H		RCVR AUDIO(+)				
25	W185		WHT-4 24AWG TSP	S		J		RCVR AUDIO(-)				
26	W185		BLK-5 24AWG TSP	T		K		OPR AUDIO(+)				
27	W185		WHT-5 24AWG TSP	U		L		OPR AUDIO(-)				
28	W185		BLK-6 24AWG TSP	V		M		BACKUP GATE(+)				
29	W185		WHT-6 24AWG TSP	W		N		BACKUP GATE(-)				
30	W185		BLK-7 24AWG TSP	X		P		JAM GATE(+)				
31	W185		WHT-7 24AWG TSP	Y		R		JAM GATE(-)				
32	W185		BLK-8 24AWG TSP	Z		S		BASIC GATE(+)				
33	W185		WHT-8 24AWG TSP	*A		T		BASIC GATE(-)				
34	W185		BLK-9 24AWG TSP	*B		U		EXC DELAY GATE(+)				
35	W185		WHT-9 24AWG TSP	*C		V		EXC DELAY GATE(-)				
36												
37												
38												
39	W186		M17/84-RG223					UNLEVELED RF VCA	A17J003	A14J005		(J)
40												

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1												
2												
3												
4	W187		M17/84-RG223					LEVELED RF VCA	A14J006	A17J006		(J)
5												
6												
7												
8	W188		M17/84-RG223					REFERENCE RF	A17J009	A14J009		(J)
9												
10												
11												
12	W189			P1		P2		EXCITER CONTROL	A14J011	A17J002		(J)
13	W189		SHLD-4,5,6,12,13	B	016	B	016	INNER SHLD				
14	W189			C	008	C	008	N/C				
15	W189			D	008	D	008	N/C				
16	W189			E	008	E	008	N/C				
17	W189			F	008	F	008	N/C				
18	W189			G	008	G	008	N/C				
19	W189			H	008	H	008	N/C				
20	W189		BLK-1 24AWG TP	J		J		SPARE				
21	W189		WHT-1 24AWG TP	K		K		SPARE				
22	W189		BLK-2 24AWG TP	L		L		SPARE				
23	W189		WHT-2 24AWG TP	M		M		SPARE				
24	W189		WHT-3 22AWG	N		N		SIG RTN				
25	W189		BLK-4 24AWG TSP	P		P		AM AUDIO(+)				
26	W189		WHT-4 24AWG TSP	R		R		AM AUDIO(-)				
27	W189		BLK-5 24AWG TSP	S		S		FM VIDEO(+)				
28	W189		WHT-5 24AWG TSP	T		T		FM VIDEO(-)				
29	W189		BLK-6 24AWG TSP	U		U		SS SP VIDEO(+)				(J)
30	W189		WHT-6 24AWG TSP	V		V		SS SP VIDEO(-)				(J)
31	W189		BLK-7 24AWG TP	W		W		AM BIAS (+)				(J)
32	W189		WHT-7 24AWG TP	X		X		AM BIAS (-)				(J)
33	W189		BLK-8 24AWG TP	Y		Y		FM SEL(-)				(J)
34	W189		WHT-8 24AWG TP	Z		Z		FM SEL(+)				(J)
35	W189		BLK-9 24AWG TP	*A		*A		SS SP EN(+)				(J)
36	W189		WHT-9 24AWG TP	*B		*B		SS SP EN(-)				(J)
37	W189		BLK-10 24AWG TP	*C		*C		AFC EN(+)				
38	W189		WHT-10 24AWG TP	*D		*D		AFC EN(-)				
39	W189		BLK-11 24AWG TP	*E		*E		LSB SEL(+)				
40	W189		WHT-11 24AWG TP	*F		*F		LSB SEL(-)				

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT

CODE ID NO. 57958 DRAWING NO. 5053204
REV J SHEET 30

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W189		BLK-12 24AWG TSP	•G		•G		EXC DELAY GATE(+)				
2	W189		WHT-12 24AWG TSP	•H		•H		EXC DELAY GATE(-)				
3	W189		BLK-13 24AWG TSP	•I		•I		EXC XMTR GATE(+)				(J)
4	W189		WHT-13 24AWG TSP	•J		•J		EXC XMTR GATE(-)				(J)
5	W189		BLK-14 24AWG TP	•K		•K		DSB SEL(+)				
6	W189			•M	008	•M	008	N/C				
7	W189		WHT-14 24AWG TP	•N		•N		DSB SEL(-)				
8	W189		BLK-15 24AWG TP	•P		•P		PFSK SEL(+)				
9	W189		WHT-15 24AWG TP	•Q		•Q		PFSK SEL(-)				
10	W189			•R	008	•R	008	N/C				
11												
12												
13												
14	W190		M17/84-RG223					BITE RF	A21J012	A17J006		(J)
15												
16												
17												
18	W191		M17/84-RG223					NBIF 2	A23J004	A17J010		(J)
19												
20												
21												
22	W192		M17/84-RG223					REFERENCE 5MHZ RF	A25J019	A17J004		(J)
23												
24												
25												
26	W193		M17/84-RG223					L.O. RCVR	A25J015	A17J007		(J)
27												
28												
29												
30	W195			P1		P2		LP ANT CONT.	A21J020	1A13J002		(J)
31	W195		WHT-1 20AWG	B		B		GROUND				
32	W195			C	008	C	008	N/C				
33	W195			D	008	D	008	N/C				
34	W195		WHT-2 20AWG	E		E		AZ CW(+)				
35	W195		WHT-3 20AWG	F		F		AZ CW(+)				
36	W195		WHT-4 20AWG	G		G		AZ CW LIMIT				
37	W195		WHT-5 20AWG	H		H		AZ CCW LIMIT				(J)
38	W195		WHT-6 20AWG	J		J		AZ CW(-)				
39	W195		WHT-7 20AWG	K		K		AZ CW(-)				
40	W195		WHT-8 20AWG	L		L		POL VERT(+)				

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W195		WHT-9 20AWG	M		M		POL VERT(+)				
2	W195		WHT-10 20AWG	N		N		POL VERT LIMIT				
3	W195		WHT-11 20AWG	P		P		POL HORIZ LIMIT				
4	W195		WHT-12 20AWG	R		R		POL VERT(-)				
5	W195		WHT-13 20AWG	S		S		POL VERT(-)				
6	W195		SHLD-14,15,16,18	T	016	T	016	SHLD				
7	W195		WHT-14 20AWG SH	U		U		ANALOG COMMON				
8	W195		WHT-15 20AWG SH	V		V		ANALOG AZ				
9	W195		WHT-16 20AWG SH	W		W		ANALOG REF				
10	W195		WHT-17 20AWG	X		X		VERT SENSE				(J)
11	W195		WHT-18 20AWG SH	Y		Y		45 SENSE				
12	W195		WHT-19 20AWG	Z		Z		HORIZ SENSE				
13	W195		WHT-20 20AWG	•A		•A		SENSE COMMON				(J)
14	W195		WHT-21 20AWG	•B		•B		ANT FOLD(-)				(J)
15	W195		WHT-22 20AWG	•C		•C		ANT FOLD(-)				(J)
16	W195		WHT-23 20AWG	•D		•D		ANT FOLD(-)				(J)
17	W195		WHT-24 20AWG	•E		•E		ANT FOLD(+)				(J)
18	W195		WHT-25 20AWG	•F		•F		ANT FOLD(+)				(J)
19	W195		WHT-26 20AWG	•G		•G		ANT FOLD(+)				
20	W195		WHT-27 20AWG	•H		•H		FOLD LIMIT SENSE				
21	W195		WHT-28 20AWG	•J		•J		UNFOLD LIMIT SENSE				
22												
23												
24												
25	W196			P1		J1		LP MAST CONT	A21J021	1A5J008		(J)
26	W196			B	008	B		INNER SHLD N/C				
27	W196		WHT-1 20AWG	C		C		SPARE				(J)
28	W196		WHT-2 20AWG	D		D		INDICATOR RTN				(J)
29	W196		WHT-3 20AWG	E		E		TANK PRESSURE COMMON				(J)
30	W196		WHT-4 20AWG	F		F		UP CMD CAB				(J)
31	W196		WHT-5 20AWG	G		G		TANK PRESSURE NORMAL				(J)
32	W196		WHT-6 20AWG	H		H		DWN CMD CAB				
33	W196		WHT-7 20AWG	J		I		SPARE				
34	W196		WHT-8 20AWG	K		J		SPARE				
35												
36												
37												
38	W197			P1		J1		MAST SOLENOD EP	A21J014	1A5J007		(J)
39	W197			B	008	B		INNER SHLD N/C				
40	W197			C	008	C		N/C				

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W197		WHT-1 20AWG	D		D		TANK PRESSURE LOW				(J)
2	W197		WHT-2 20AWG	E		E		CPRSR CONT READY				(J)
3	W197		WHT-3 20AWG	F		F		MAST PRESSURE NORMAL				(J)
4	W197		WHT-4 20AWG	G		G		TANK PRESS NOR				(A)
5	W197		WHT-5 20AWG	N		H		SPARE				
6	W197		WHT-6 20AWG	J		J		UP SOLENOID				
7	W197		WHT-7 20AWG	K		K		DOWN SOLENOID				
8	W197		WHT-8 20AWG	L		L		TANK PRESS COMMON				
9	W197		WHT-9 20AWG	M		M		MAST SW DEPLOY				(A)
10	W197			H	008			GND				
11	W197			P	008			N/C				(J)
12	W197		WHT-10 20AWG	R		N		MAST PRESSURE LOW				(J)
13	W197		WHT-11 20AWG	S		P		COMPRESSOR ON				
14	W197		WHT-12 20AWG	T		R		MAST DOWN CONFIRM				(J)
15	W197		WHT-13 20AWG	U		S		24V RTN				(J)
16	W197		WHT-14 20AWG	V		T		MAST PRESS COMMON				(D)
17	W199		5054448-1 COAX					SITE ANT RF	A21J002	1A5CP32		
18												
19												
20												
21	W200			P1		P2		RFCU GATES	A20J010	A21J015		(J)
22	W200			B	008	B	008	INNER SHLD N/C				
23	W200			C	008	C	008	N/C				
24	W200		BLK-1 22AWG TP	D		D		SPARE				
25	W200		WHT-1 22AWG TP	E		E		SPARE				
26	W200		BLK-2 22AWG TP	F		F		SPARE				
27	W200		WHT-2 22AWG TP	G		G		SPARE				
28	W200		BLK-3 22AWG TP	H		H		SPARE				
29	W200		WHT-3 22AWG TP	J		J		SPARE				
30	W200		WHT-4 22AWG	K		K		SIGNAL RTN				
31	W200		BLK-5 22AWG TP	L		L		BITE GATE(+)				
32	W200		WHT-5 22AWG TP	M		M		BITE GATE(-)				
33	W200		BLK-6 22AWG TP	N		N		MOTION SENSE(+)				
34	W200		WHT-6 22AWG TP	P		P		MOTION SENSE(-)				
35	W200		BLK-7 22AWG TP	R		R		AZ LIMIT(+)				
36	W200		WHT-7 22AWG TP	S		S		AZ LIMIT(-)				
37	W200		BLK-8 22AWG TP	T		T		BACKUP(+)				
38	W200		WHT-8 22AWG TP	U		U		BACKUP(-)				
39												
40												

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM INT	TO P2	TO INT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1												
2												
3												
4	W201		M17/84-RG223					RF-RCVR 1	A21J003	A25J001		(D)
5												
6												
7												
8	W202		M17/84-RG223					RF-RCVR 2	A21J004	A25J002		(D)
9												
10												
11												
12	W203		M17/84-RG223					RF-RCVR 3	A21J005	A25J003		(D)
13												
14												
15												
16	W204		M17/84-RG223					RF-RCVR 4	A21J006	A25J004		(D)
17												
18												
19												
20	W206		M17/84-RG223					NB IF	A25J005	A23J006		(J)
21												
22												
23												
24	W207		M17/84-RG223					NB IF	A25J006	A23J007		(J)
25												
26												
27												
28	W208		M17/84-RG223					NB IF	A25J007	A23J008		(J)
29												
30												
31												
32	W209		M17/84-RG223					NB IF	A25J008	A23J009		(J)
33												
34												
35												
36	W210		M17/84-RG223					WB IF 1	A25J009	A23J014		(J)
37												
38												
39												
40	W211		M17/84-RG223					WB IF 2	A25J010	A23J015		(J)

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM INT	TO P2	TO INT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1												
2												
3												
4	W212		M17/84-RG223					WB IF 3	A25J011	A23J016		(J)
5												
6												
7												
8	W213		M17/84-RG223					WB IF 4	A25J012	A23J017		(J)
9												
10												
11												
12	W214			P1		P2		RC BUS A	A23J021	A25J026		(J)
13	W214		SHLD-10	B		B		INNER SHLD				
14	W214		WHT-1 22AWG	C		C		SPARE				
15	W214		WHT-2 22AWG	D		D		SPARE				
16	W214		WHT-3 22AWG	E		E		SPARE				
17	W214		WHT-4 22AWG	F		F		SPARE				
18	W214		BLK-5 22AWG TP	G		G		SPARE				
19	W214		WHT-5 22AWG TP	H		H		SPARE				
20	W214		WHT-6 22AWG	J		J		CHASSIS GND				
21	W214		BLK-7 22AWG TP	K		K		STROBE(+)				
22	W214		WHT-7 22AWG TP	L		L		STROBE(-)				
23	W214		BLK-8 22AWG TP	M		M		CLOCK(+)				
24	W214		WHT-8 22AWG TP	N		N		CLOCK(-)				
25	W214		BLK-9 22AWG TP	P		P		DATA(+)				
26	W214		WHT-9 22AWG TP	R		R		DATA(-)				
27	W214		BLK-10 22AWG TSP	S		S		5MHZ REF OSC(+)				
28	W214		WHT-10 22AWG TSP	T		T		5MHZ REF OSC(-)				
29	W214		WHT-11 22AWG	U		U		ADDRESS SEL (2TO THE5)				(J)
30	W214		WHT-12 22AWG	V		V		ADDRESS SEL (2TO THE4)				(J)
31	W214		WHT-13 22AWG	W		W		ADDRESS SEL (2TO THE3)				(J)
32	W214		WHT-14 22AWG	X		X		DEDICATED SPARE				(L)
33	W214		BLK-15 22AWG TP	Y		Y		R.S. PWR SUPPLY FAULT(+)				
34	W214		WHT-15 22AWG TP	Z		Z		R.S. PWR SUPPLY FAULT(-)				
35	W214		WHT-16 22AWG	*A		*A		ADDRESS RTN				
36	W214			*B	008	*B	008	DEDICATED SPARE				(L)
37	W214		WHT-17 22AWG	*C		*C		EXTERNAL BLANKING RCVR 1				
38	W214		WHT-18 22AWG	*D		*D		EXTERNAL BLANKING RCVR 2				
39	W214		WHT-19 22AWG	*E		*E		EXTERNAL BLANKING RCVR 3				
40	W214		WHT-20 22AWG	*F		*F		EXTERNAL BLANKING RCVR 4				

* ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W214		WHT-21 22AWG	•G		•G		EXTERNAL BLANKING RTN				
2	W214		BLK-22 22AWG TP	•H		•H		R.S. TEMP FAULT(+)				
3	W214		WHT-22 22AWG TP	•J		•J		R.S. TEMP FAULT(-)				
4												
5												
6												
7	W215			P1		P2		AUDIO, AGC	A23J020	A25J023		(J)
8	W215		SHLDS	B	016	B	016	INNER SHLD				
9	W215			C	008	C	008	N/C				
10	W215			D	008	D	008	N/C				
11	W215			E	008	E	008	N/C				
12	W215			F	008	F	008	N/C				
13	W215			G	008	G	008	N/C				
14	W215			H	008	H	008	N/C				
15	W215		BLK-1 22AWG TSP	J		J		SPARE				
16	W215		WHT-1 22AWG TSP	K		K		SPARE				
17	W215		BLK-2 22AWG TSP	L		L		SPARE				
18	W215		WHT-2 22AWG TSP	M		M		SPARE				
19	W215		WHT-3 22AWG	N		N		CHASSIS GND				
20	W215		BLK-4 22AWG TSP	P		P		STD AUDIO HI RCVR 1				
21	W215		WHT-4 22AWG TSP	R		R		STD AUDIO LO RCVR 1				
22	W215		BLK-5 22AWG TSP	S		S		AUX AUDIO RCVR 1				
23	W215		WHT-5 22AWG TSP	T		T		AUX AUDIO RTN RCVR 1				
24	W215		BLK-6 22AWG TSP	U		U		STD AUDIO HI RCVR 2				
25	W215		WHT-6 22AWG TSP	V		V		STD AUDIO LO RCVR 2				
26	W215		BLK-7 22AWG TSP	W		W		AUX AUDIO RCVR 2				
27	W215		WHT-7 22AWG TSP	X		X		AUX AUDIO RTN RCVR 2				
28	W215		BLK-8 22AWG TSP	Y		Y		STD AUDIO HI RCVR 3				
29	W215		WHT-8 22AWG TSP	Z		Z		STD AUDIO LO RCVR 3				
30	W215		BLK-9 22AWG TSP	•A		•A		AUX AUDIO RCVR 3				
31	W215		WHT-9 22AWG TSP	•B		•B		AUX AUDIO RTN RCVR 3				
32	W215		BLK-10 22AWG TSP	•C		•C		STD AUDIO HI RCVR 4				
33	W215		WHT-10 22AWG TSP	•D		•D		STD AUDIO LO RCVR 4				
34	W215		BLK-11 22AWG TSP	•E		•E		AUX AUDIO RCVR 4				
35	W215		WHT-11 22AWG TSP	•F		•F		AUX AUDIO RTN RCVR 4				
36	W215		BLK-12 22AWG TSP	•G		•G		AGC RCVR 1				
37	W215		WHT-12 22AWG TSP	•H		•H		AGC RTN 1				(J)
38	W215		BLK-13 22AWG TSP	•I		•I		AGC RCVR 2				
39	W215		WHT-13 22AWG TSP	•J		•J		AGC RTN 2				(J)
40	W215		BLK-14 22AWG TSP	•K		•K		AGC RCVR 3				

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT

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INTRA SHELTER CABLES                                                                          REF DES REPORT
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L :CABLE ASSY :      CABLE WIRING DATA                 :                        :         SYSTEM ADDRESS           :      :
I ------------------------------------------------------                        ----------------------------------------LENGTH:
N :REF     :PART:CABLE TYPE-WIRE  :  FROM  :   TO   :     SYSTEM FUNCTION/      :      FROM        :       TO         :      :REMARKS
E :DES     : NO :NO-COLOR-GA-KIND-------------------:       VOLTS-AMPS          :       P1         :       P2         : FEET :
# :        :    :                 : P1 :NT : P2 :NT :                           :                  :                  :      :
===============================================================================================================================
 1 W215          WHT-14 22AWG TSP  *M        *M       AGC RTN 3                                                              (J)
 2 W215          BLK-15 22AWG TSP  *N        *N       AGC RCVR 4
 3 W215          WHT-15 22AWG TSP  *P        *P       AGC RTN 4                                                              (J)
 4 W215          WHT-16 22AWG SH   *Q        *Q       ISB AUDIO RCVR 1
 5 W215          WHT-17 22AWG SH   *R        *R       ISB AUDIO RCVR 2
 6 W215          WHT-18 22AWG SH   *S        *S       ISB AUDIO RCVR 3
 7 W215          WHT-19 22AWG SH   *T        *T       ISB AUDIO RCVR 4
 8
 9
10
11 W217          M17/84-RG223                         NBIF 1                    A23J010            A20J002                   (J)
12
13
14
15 W218          M17/84-RG223                         NBIF 1                    A23J011            A20J003                   (J)
16
17
18
19 W219          M17/84-RG223                         NBIF 1                    A23J012            A20J004                   (J)
20
21
22
23 W220          M17/84-RG223                         NBIF 1                    A23J013            A20J005                   (J)
24
25
26
27 W221                           P1        P2        AUX AUDIO   RSPU TO SIDU  A23J018            A20J006                   (D)
28 W221          SHLDS             B 016     B 016    INNER SHLD
29 W221                            C 008     C 008    N/C
30 W221          WHT-1  22AWG      D         D        CHASSIS GND
31 W221          BLK-2  22AWG TSP  E         E        STD AUDIO HI RCVR 1
32 W221          WHT-2  22AWG TSP  F         F        STD AUDIO LO RCVR 1
33 W221          BLK-3  22AWG TSP  G         G        AUX AUDIO RCVR 1
34 W221          WHT-3  22AWG TSP  H         H        AUX AUDIO RTN RCVR 1
35 W221          BLK-4  22AWG TSP  J         J        STD AUDIO HI RCVR 2
36 W221          WHT-4  22AWG TSP  K         K        STD AUDIO LO RCVR 2
37 W221          BLK-5  22AWG TSP  L         L        AUX AUDIO RCVR 2
38 W221          WHT-5  22AWG TSP  M         M        AUX AUDIO RTN RCVR 2
39 W221          BLK-6  22AWG TSP  N         N        STD AUDIO HI RCVR 3
40 W221          WHT-6  22AWG TSP  P         P        STD AUDIO LO RCVR 3
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16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT
 8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
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INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W221		BLK-7 22AWG TSP	R		R		AUX AUDIO RCVR 3				
2	W221		WHT-7 22AWG TSP	S		S		AUX AUDIO RTN RCVR 3				
3	W221		BLK-8 22AWG TSP	T		T		STD AUDIO HI RCVR 4				
4	W221		WHT-8 22AWG TSP	U		U		STD AUDIO LO RCVR 4				
5	W221		BLK-9 22AWG TSP	V		V		AUX AUDIO RCVR 4				
6	W221		WHT-9 22AWG TSP	W		W		AUX AUDIO RTN RCVR 4				
7	W221		BLK-10 22AWG TSP	X		X		AGC RCVR 1				
8	W221		WHT-10 22AWG TSP	Y		Y		AGC RTN 1				(J)
9	W221		BLK-11 22AWG TSP	Z		Z		AGC RCVR 2				
10	W221		WHT-11 22AWG TSP	•A		•A		AGC RTN 2				(J)
11	W221		BLK-12 22AWG TSP	•B		•B		A C RCVR 3				
12	W221		WHT-12 22AWG TSP	•C		•C		AGC RTN 3				(J)
13	W221		BLK-13 22AWG TSP	•D		•D		AGC RCVR 4				
14	W221		WHT-13 22AWG TSP	•E		•E		AGC RTN 4				(J)
15	W221		WHT-14 22AWG SH	•F		•F		ISB AUDIO RCVR 1				
16	W221		WHT-15 22AWG SH	•G		•G		ISB AUDIO RCVR 2				
17	W221		WHT-16 22AWG SH	•H		•H		ISB AUDIO RCVR 3				
18	W221		WHT-17 22AWG SH	•J		•J		ISB AUDIO RCVR 4				
19												
20												
21												
22	W222			P1		P2		AUX DIG DATA SIDU-RSPU	A20J007	A23J019		(D)
23	W222			B	008	B	008	INNER SHLD N/C				
24	W222		BLK-1 22AWG TP	C		C		SPARE				
25	W222		WHT-1 22AWG TP	D		D		SPARE				
26	W222		BLK-2 22AWG TP	E		E		SPARE				
27	W222		WHT-2 22AWG TP	F		F		SPARE				
28	W222		WHT-3 22AWG	G		G		SIGNAL RTN				
29	W222		BLK-4 22AWG TP	H		H		CPD RCVR 1(+)				
30	W222		WHT-4 22AWG TP	J		J		CPD RCVR 1(-)				
31	W222		BLK-5 22AWG TP	K		K		CPD RCVR 2(+)				
32	W222		WHT-5 22AWG TP	L		L		CPD RCVR 2(-)				(J)
33	W222		BLK-6 22AWG TP	M		M		CPD RCVR 3(+)				(J)
34	W222		WHT-6 22AWG TP	N		N		CPD RCVR 3(-)				(J)
35	W222		BLK-7 22AWG TP	P		P		CPD RCVR 4(+)				(J)
36	W222		WHT-7 22AWG TP	R		R		CPD RCVR 4(-)				
37	W222		BLK-8 22AWG TP	S		S		150HZ TONE DET RCVR 1(+)				
38	W222		WHT-8 22AWG TP	T		T		150HZ TONE DET RCVR 1(-)				
39	W222		BLK-9 22AWG TP	U		U		150HZ TONE DET RCVR 2(+)				
40	W222		WHT-9 22AWG TP	V		V		150HZ TONE DET RCVR 2(-)				

B ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W222		BLK-10 22AWG TP	W		W		150HZ TONE DET RCVR 3(+)				
2	W222		WHT-10 22AWG TP	X		X		150HZ TONE DET RCVR 3(-)				
3	W222		BLK-11 22AWG TP	Y		Y		150HZ TONE DET RCVR 4(+)				
4	W222		WHT-11 22AWG TP	Z		Z		150HZ TONE DET RCVR 4(-)				
5	W222		BLK-12 22AWG TP	•A		•A		DELAY GATE RCVR 1(+)				
6	W222		WHT-12 22AWG TP	•B		•B		DELAY GATE RCVR 1(-)				
7	W222		BLK-13 22AWG TP	•C		•C		DELAY GATE RCVR 2(+)				
8	W222		WHT-13 22AWG TP	•D		•D		DELAY GATE RCVR 2(-)				
9	W222		BLK-14 22AWG TP	•E		•E		DELAY GATE RCVR 3(+)				
10	W222		WHT-14 22AWG TP	•F		•F		DELAY GATE RCVR 3(-)				
11	W222		BLK-15 22AWG TP	•G		•G		DELAY GATE RCVR 4(+)				
12	W222		WHT-15 22AWG TP	•H		•H		DELAY GATE RCVR 4(-)				
13	W222		BLK-16 22AWG TP	•I		•I		RCVR BLANKING(+)				
14	W222		WHT-16 22AWG TP	•J		•J		RCVR BLANKING(-)				
15	W222		BLK-17 22AWG TP	•K		•K		CPD INTEGRATOR DONE(+)1				(J)
16	W222		WHT-17 22AWG TP	•M		•M		CPD INTEGRATOR DONE(-)1				(J)
17	W222		BLK-18 22AWG TP	•N		•N		CPD INTEGRATOR DONE(+)2				(J)
18	W222		WHT-18 22AWG TP	•P		•P		CPD INTEGRATOR DONE(-)2				(J)
19	W222		BLK-19 22AWG TP	•Q		•Q		CPD INTEGRATOR DONE(+)3				(J)
20	W222		WHT-19 22AWG TP	•R		•R		CPD INTEGRATOR DONE(-)3				(J)
21	W222		BLK-20 22AWG TP	•S		•S		CPD INTEGRATOR DONE(+)4				(J)
22	W222		WHT-20 22AWG TP	•T		•T		CPD OMTEGRATOR DONE(-)4				(J)
23												
24												
25												
26	W224			P1				AUDIO	A20J015	A22J007		(J)
27	W224		SHLDS	B	016	P2 7	016	INNER SHLD				
28	W224			C	008			N/C				
29	W224			D	008			N/C				
30	W224		BLK-1 24AWG TSP	E		4		AUDIO OUTPUT RTN				(J)
31	W224		WHT-1 24AWG TSP	F		5		AUDIO OUTPUT HI				(J)
32	W224		BLK-2 24AWG TSP	G		1		RADIO INPUT 1 HI				
33	W224		WHT-2 24AWG TSP	H		2		RADIO INPUT 1 RTN				
34	W224		BLK-3 24AWG TSP	J		10		RADIO INPUT 2 HI				
35	W224		WHT-3 24AWG TSP	K		11		RADIO INPUT 2 RTN				
36	W224					8	008	MIKE INP 2 N/C				
37	W224					12	008	MIKE INP 2 RTN N/C				
38	W224					6	008	N/C				
39	W224					3	008	MIKE INPUT 1 HOT N/C				
40	W224					9	008	MIKE INPUT 1 RTN N/C				

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT

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INTRA SHELTER CABLES                                                                    REF DES REPORT
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L |CABLE ASSY |      CABLE WIRING DATA                   |                        |           SYSTEM ADDRESS          |      |
I -------------------------------------------------------|                        |-----------------------------------LENGTH|
N |REF     |PART|CABLE TYPE-WIRE | FROM  |  TO    |   SYSTEM FUNCTION/       |     FROM        |      TO          |      | REMARKS
E |DES     | NO |NO-COLOR-GA-KIND-----------------|     VOLTS-AMPS           |      P1         |      P2          | FEET |
# |        |    |                | P1 |NT | P2 |NT |                          |                 |                  |      |
===============================================================================================================================
 1
 2
 3
 4 W225                              P1        P2        BACKUP AUDIO             A32J004         A20J011                    (J)
 5 W225           SHLDS               B 016     B 016 INNER SHLD
 6 W225           BLK-1   22AWG TSP   C         C     SPARE
 7 W225           WHT-1   22AWG TSP   D         D     SPARE
 8 W225           BLK-2   22AWG TSP   E         E     SPARE
 9 W225           WHT-2   22AWG TSP   F         F     SPARE
10 W225           BLK-3   22AWG TSP   G         G     SPARE
11 W225           WHT-3   22AWG TSP   H         H     SPARE
12 W225           WHT-4   22AWG       J         J     SIGNAL RTN
13 W225           BLK-5   22AWG TSP   K         K     RT HDSET AUDIO(+)
14 W225           WHT-5   22AWG TSP   L         L     RT HDSET AUDIO(-)
15 W225           BLK-6   22AWG TSP   M         M     LT HDSET AUDIO(+)
16 W225           WHT-6   22AWG TSP   N         N     LT HDSET AUDIO(-)
17 W225           BLK-7   22AWG TSP   P         P     BACKUP INPUT(+)
18 W225           WHT-7   22AWG TSP   R         R     BACKUP INPUT(-)
19 W225           WHT-8   22AWG       S         S     SPARE
20 W225           BLK-9   22AWG TSP   T         T     MIKE AUDIO(+)
21 W225           WHT-9   22AWG TSP   U         U     MIKE AUDIO(-)
22 W225           BLK-10  22AWG TSP   V         V     RT HDSET SEL(+)
23 W225           WHT-10  22AWG TSP   W         W     RT HDSET SEL(-)
24 W225           BLK-11  22AWG TSP   X         X     LT HDSET SEL(+)
25 W225           WHT-11  22AWG TSP   Y         Y     LT HDSET SEL(-)
26 W225           BLK-12  22AWG TSP   Z         Z     JAM(+)
27 W225           WHT-12  22AWG TSP   *A        *A    JAM(-)
28 W225           BLK-13  22AWG TSP   *B        *B    INT(+)
29 W225           WHT-13  22AWG TSP   *C        *C    INT(-)
30
31
32
33 W226                              P1                  SYS INTRPT               A20J009         A6A1J008                   (J)
34 W226                                B 008             INNER SHLD N/C                                                      (A)
35 W226           WHT-1   24AWG        C       P2 3      SPARE                                                               (A)
36 W226           WHT-2   24AWG        D          5      SPARE                                                               (A)
37 W226           WHT-3   24AWG        E          7      SPARE                                                               (A)
38 W226           WHT-4   24AWG        F          9      SPARE                                                               (A)
39 W226           WHT-5   24AWG        G         11      SPARE                                                               (A)
40 W226           WHT-6   24AWG        H         15      SPARE                                                               (A)
===============================================================================================================================

16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT
 8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
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INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY		CABLE WIRING DATA					SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS		LENGTH	REMARKS
	REF DES	PART NO	CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM INT	TO P2	TO INT		FROM P1	TO P2	FEET	
1	W226		WHT-7 24AWG	J		55		SIGNAL RTN				(A)
2	W226		WHT-8 24AWG	K		40		CP INT REQ 1-1				(A)
3	W226		WHT-9 24AWG	L		42		CP INT REQ 1-2				(A)
4	W226		WHT-10 24AWG	M		38		CP INT REQ 2-1				(A)
5	W226		WHT-11 24AWG	N		51		CP INT REQ 2-2				(A)
6	W226		WHT-12 24AWG	P		46		CP INT REQ 3-1				(A)
7	W226		WHT-13 24AWG	R		44		CP INT REQ 3-2				(A)
8	W226		WHT-14 24AWG	S		47		CP INT REQ 4-1				(A)
9	W226		WHT-15 24AWG	T		49		CP INT REQ 4-2				(A)
10	W226		WHT-16 24AWG	U		39		TONE INT REQ 1				(A)
11	W226		WHT-17 24AWG	V		41		TONE INT REQ 1				(A)
12	W226		WHT-18 24AWG	W		54		TONE INT REQ 3				(A)
13	W226		WHT-19 24AWG	X		52		TONE INT REQ 4				(A)
14	W226		WHT-20 24AWG	Y		50		MOTION COMPLETE INT REQ				(A)
15	W226		WHT-21 24AWG	Z		45		AZ LIMIT INT REQ				(A)
16	W226		WHT-22 24AWG	•A		43		CONTROL PNL INT REQ				(A)
17	W226		WHT-23 24AWG	•B		48		RCVR GATE INT REQ				(A)
18	W226		WHT-24 24AWG	•C		24		ACK CP 1-1				(A)
19	W226		WHT-25 24AWG	•D		22		ACK CP 1-2				(A)
20	W226		WHT-26 24AWG	•E		20		ACK CP 2-1				(A)
21	W226		WHT-27 24AWG	•F		18		ACK CP 2-2				(A)
22	W226		WHT-28 24AWG	•G		10		ACK CP 3-1				(A)
23	W226		WHT-29 24AWG	•H		12		ACK CP 3-2				(A)
24	W226		WHT-30 24AWG	•I		14		ACK CP 4-1				(A)
25	W226		WHT-31 24AWG	•J		16		ACK CP 4-2				(A)
26	W226		WHT-32 24AWG	•K		8		ACK TONE 1				(A)
27	W226		WHT-33 24AWG	•M		6		ACK TONE 2				(A)
28	W226		WHT-34 24AWG	•N		4		ACK TONE 3				(A)
29	W226		WHT-35 24AWG	•P		2		ACK TONE 4				(A)
30	W226		WHT-36 24AWG	•Q		26		ACK MOTION COMPLETE				(A)
31	W226		WHT-37 24AWG	•R		28		ACK AZ LIMIT				(A)
32	W226		WHT-38 24AWG	•S		32		ACK CONTROL PNL				(A)
33	W226		WHT-39 24AWG	•T		30		ACK RCVR GATE				(A)
34	W226					1	008	N/C(GND)				(A)
35	W226					13	008	N/C(GND)				(A)
36	W226					25	008	N/C(GND)				(A)
37	W226					27	008	N/C(GND)				(A)
38	W226					29	008	N/C(GND)				(A)
39	W226					31	008	N/C(GND)				(A)
40	W226					33	008	N/C(GND)				(A)

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W226					34	008	N/C(GND)				(A)
2	W226					35	008	N/C(GND)				(A)
3	W226					53	008	N/C(DEDICATED SPARE)				(A)
4	W226					17	008	N/C				(A)
5	W226					19	008	N/C				(A)
6	W226					21	008	N/C				(A)
7	W226					23	008	N/C				(A)
8	W226					36	008	N/C				(A)
9	W226					37	008	N/C				(A)
10												
11												
12												
13	W228				004			AIR COND-REM CONT	1A11A2J001	1A11A1J020		(E)
14	W228		WHT-1 16AWG	P1 A		P2 A						
15	W228		WHT-2 14AWG	B		B						
16	W228		WHT-3 14AWG	C		C						
17	W228		WHT-4 14AWG	D		D						
18	W226		WHT-5 14AWG	E		E						
19	W228		WHT-6 14AWG	F		F						
20	W228		WHT-7 14AWG	G		G						
21	W228		WHT-8 16AWG	H		H						
22	W228		WHT-9 16AWG	J		J						
23	W228		WHT-10 16AWG	K		K						
24	W228		WHT-11 16AWG	L		L						
25	W228		WHT-12 16AWG	M		M						
26												
27												
28												
29	W230			P1		P2		XMTR INTLKS	A21J023	A31J001		(J)
30	W230			B	008			INNER SHLD N/C				
31	W230			C	008			N/C				
32	W230			D	008			N/C				
33	W230			E	008			N/C				
34	W230		WHT-1 20AWG	F		F		+24VDC IND POWER				(J)
35	W230			G	008			N/C				
36	W230			H	008			N/C				
37	W230		WHT-2 20AWG	J		B		SOURCE RTN				(J)
38	W230		WHT-3 20AWG	K		C		XMTR 1 INTLK IND				(J)
39	W230		WHT-4 20AWG	L		D		XMTR 2 INTLK IND				(J)
40	W230		WHT-5 20AWG	M		E		XMTR 3 INTLK IND				(J)

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
4 CABLE IS PREFABRICATED ON P1 END

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INTRA SHELTER CABLES                                                                          REF DES REPORT
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L :CABLE ASSY :      CABLE WIRING DATA                  :                          :             SYSTEM ADDRESS              :      :
I ---------------------------------------------------------                          -----------------------------------------LENGTH:
N :REF     :PART:CABLE TYPE-WIRE :  FROM  :   TO   :   SYSTEM FUNCTION/     :      FROM           :      TO           :      :REMARKS
E :DES     : NO :NO-COLOR-GA-KIND-------------------       VOLTS-AMPS        :       P1            :      P2           : FEET :
# :        :    :                : P1 :NT : P2 :NT :                          :                     :                   :      :
*******************************************************************************************************************************************
 1
 2
 3
 4 W231                              P1        P2      CALL IND                      A18J007           A31J004                      (J)
 5 W231          WHT-1  22AWG          B          B    CALL LIGHT COMMON
 6 W231          WHT-2  22AWG          C          C    OVER TEMP SW
 7 W231          WHT-3  22AWG          D          D    SQUELCH BREAK
 8 W231          WHT-4  22AWG          E          E    CALL LIGHT +24VDC                                                            (J)
 9 W231          WHT-5  22AWG          F          F    CALL LIGHT SW RTN
10 W231                                G 008           N/C
11 W231                                H 008           N/C
12 W231                                J 008           N/C
13 W231                                K 008           N/C
14
15
16
17 W233                                                EPROM           DLC-PROC A24J006          A6A1J009                     (D)
18 W233         BLK-1  24AWG TP  P1 1        P2 1     PB0
19 W233         WHT-1  24AWG TP     6           6     PB0 RTN
20 W233         BLK-2  24AWG TP     2           2     PB1
21 W233         WHT-2  24AWG TP     7           7     PB1 RTN
22 W233         BLK-3  24AWG TP     3           3     PB2
23 W233         WHT-3  24AWG TP     8           8     PB2 RTN
24 W233         BLK-4  24AWG TP     4           4     PB3
25 W233         WHT-4  24AWG TP     5           5     PB3 RTN
26 W233         BLK-5  24AWG TP     9           9     PB4
27 W233         WHT-5  24AWG TP    16          16     PB4 RTN
28 W233         BLK-6  24AWG TP    10          10     PB5
29 W233         WHT-6  24AWG TP    11          11     PB5 RTN
30 W233         BLK-7  24AWG TP    12          12     PB6
31 W233         WHT-7  24AWG TP    13          13     PB6 RTN
32 W233         BLK-8  24AWG TP    14          14     PB7
33 W233         WHT-8  24AWG TP    15          15     PB7 RTN
34 W233         BLK-9  24AWG TP    17          17     PB8
35 W233         WHT-9  24AWG TP    18          18     PB8 RTN
36 W233         BLK-10 24AWG TP    19          19     PB9
37 W233         WHT-10 24AWG TP    20          20     PB9 RTN
38 W233         BLK-11 24AWG TP    21          21     PB10
39 W233         WHT-11 24AWG TP    22          22     PB10 RTN
40 W233         BLK-12 24AWG TP    23          23     PB11
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 8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
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INTRA SHELTER CABLES REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W233		WHT-12 24AWG TP	24		24		PB11 RTN				
2	W233		BLK-13 24AWG TP	25		25		PB12				
3	W233		WHT-13 24AWG TP	32		32		PB12 RTN				
4	W233		BLK-14 24AWG TP	26		26		PB13				
5	W233		WHT-14 24AWG TP	27		27		PB13 RTN				
6	W233		BLK-15 24AWG TP	28		28		PB14				
7	W233		WHT-15 24AWG TP	29		29		PB14 RTN				
8	W233		BLK-16 24AWG TP	30		30		PB15				
9	W233		WHT-16 24AWG TP	31		31		PB15 RTN				
10	W233		BLK-17 24AWG TP	33		33		PRST*				(J)
11	W233		WHT-17 24AWG TP	34		34		PRST RTN				
12	W233		BLK-18 24AWG TP	35		35		PSTP*				(J)
13	W233		WHT-18 24AWG TP	36		36		PSTP RTN				
14	W233		BLK-19 24AWG TP	37		37		PRQ*				(J)
15	W233		WHT-19 24AWG TP	38		38		PRQ RTN				
16	W233		BLK-20 24AWG TP	40		40		PMST				
17	W233		WHT-20 24AWG TP	41		41		PMST RTN				
18	W233		BLK-21 24AWG TP	42		42		PDST				
19	W233		WHT-21 24AWG TP	43		43		PDST RTN				
20	W233		BLK-22 24AWG TP	44		44		PCLR				
21	W233		WHT-22 24AWG TP	45		45		PCLR RTN				
22	W233		BLK-23 24AWG TP	47		47		PSEL0*				(J)
23	W233		WHT-23 24AWG TP	48		48		PSEL0 RTN				
24	W233		BLK-24 24AWG TP	49		49		PSEL1*				(J)
25	W233		WHT-24 24AWG TP	53		53		PSEL1 RTN				
26	W233					50	008	PINT				(A)
27	W233					54	008	PINT RTN				(A)
28	W233					51	008	PDMA				(A)
29	W233					55	008	PDMA				(A)
30	W233		BLK-25 24AWG TP	46		46		PRUN				
31	W233		WHT-25 24AWG TP	52		52		PANF				
32	W233		WHT-26 22AWG	39		39		CHASSIS GND				
33	W233									A6A1J001		(D)
34	W233		BLK-27	50		P316		P BOOT*				(A)
35	W233		WHT-27	54		17		P BOOT RET				(A)
36	W233		BLK-28	51		18		BITE LITE*				(A)
37	W233		WHT-28	55		19		BITE LITE RET				(A)
38	W233					1	008	+5V				(A)
39	W233					2	008	RDR RUN				(A)
40	W233		JUMPER TO 9			3	011	TT IN				(E)

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
11 INSTALL JUMPERS BETWEEN PINS INDICATED

INTRA SHELTER CABLES

REF DES REPORT

L I N E #	CABLE ASSY		CABLE WIRING DATA					SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS		LENGTH	REMARKS
	REF DES	PART NO	CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	NT	TO P2	NT		FROM P1	TO P2	FEET	
1	W233					4	008	-12V				(A)
2	W233					5	008	N/C				(A)
3	W233					6	008	TT OUT				(A)
4	W233					7	008	+V				(A)
5	W233					8	008	STOP 2 ENABLE*				(A)
6	W233		JUMPER TO 3			9	011	GND				(E)
7	W233					10	008	CHASSIS GND				(A)
8	W233					11	008	N/C				(A)
9	W233					12	008	N/C				(A)
10	W233					13	008	N/C				(A)
11	W233					14	008	N/C				(A)
12	W233					15	008	N/C				(A)
13	W233					20	008	N/C				(A)
14	W233					21	008	N/C				(A)
15	W233					22	008	N/C				(A)
16	W233					23	008	N/C				(A)
17	W233					24	008	N/C				(A)
18	W233					25	008	N/C				(A)
19	W233					26	008	N/C				(A)
20	W233					27	008	N/C				(A)
21	W233					28	008	N/C				(A)
22	W233					29	008	N/C				(A)
23	W233					30	008	N/C				(A)
24	W233					31	008	N/C				(A)
25	W233					32	008	N/C				(A)
26	W233					33	008	N/C				(A)
27	W233					34	008	N/C				(A)
28	W233					35	008	N/C				(A)
29	W233					36	008	N/C				(A)
30	W233					37	008	N/C				(A)
31	W233					38	008	N/C				(A)
32	W233					39	008	N/C				(A)
33	W233					40	008	N/C				(A)
34	W233					41	009	CHASSIS GND				(A)
35	W233					42	008	GND				(A)
36	W233					43	008	CONTROL				(A)
37	W233					44	008	STOP				(A)
38	W233					45	008	RDR RDY*				(A)
39	W233					46	008	FWD				(A)
40	W233					47	008	SPKT				(A)

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
11 INSTALL JUMPERS BETWEEN PINS INDICATED

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W233					48	008	RDR0				(A)
2	W233					49	008	RDR1				(A)
3	W233					50	008	RDR2				(A)
4	W233					51	008	RDR3				(A)
5	W233					52	008	RDR4				(A)
6	W233					53	008	RDR5				(A)
7	W233					54	008	RDR6				(A)
8	W233					55	008	RDR7				(A)
9												
10												
11												
12	W234							BUS REPEATER	PROC-DLC A24J007	A6A1J007		(D)
13	W234		WHT-1 24AWG	P1 1		P2 1		B DATA 2*				
14	W234		WHT-2 24AWG	2		2		B DATA 1*				
15	W234		WHT-3 24AWG	3		3		B DATA 0*				
16	W234		WHT-4 24AWG	4		4		B DATA 8*				
17	W234		WHT-5 24AWG	5		5		B DATA 7*				
18	W234		WHT-6 24AWG	6		6		B DATA 6*				
19	W234		WHT-7 24AWG	7		7		B DATA 5*				
20	W234		WHT-8 24AWG	8		8		B DATA 4*				
21	W234		WHT-9 24AWG	9		9		B DATA 3*				
22	W234		WHT-10 24AWG	10		10		B DATA 13*				
23	W234		WHT-11 24AWG	11		11		B DATA 12*				
24	W234		WHT-12 24AWG	12		12		GND				
25	W234		WHT-13 24AWG	13		13		B DATA 11*				
26	W234		WHT-14 24AWG	14		14		GND				
27	W234		WHT-15 24AWG	15		15		B DATA 10*				
28	W234		WHT-16 24AWG	16		16		B DATA 9*				
29	W234		WHT-17 22AWG	17		17		CHASSIS GND				
30	W234		WHT-18 24AWG	18		18		BDS3*				
31	W234		WHT-19 24AWG	19		19		BDS4*				
32	W234		WHT-20 24AWG	20		20		B DATA 15*				
33	W234		WHT-21 24AWG	21		21		B DATA 14*				
34	W234		WHT-22 24AWG	22		22		BDS5*				
35	W234		WHT-23 24AWG	23		23		BDS2*				
36	W234		WHT-24 24AWG	24		24		B INTP IN*				(J)
37	W234		WHT-25 24AWG	25		25		B SELD*				
38	W234		WHT-26 24AWG	26		26		P DATOA				
39	W234		WHT-27 24AWG	27		27		BDS1*				
40	W234		WHT-28 24AWG	28		28		B DCHP IN*				(J)

B ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM INT	TO P2	TO INT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W234		WHT-29 24AWG	29		29		B DSO•				
2	W234		WHT-30 24AWG	30		30		B DATIA				
3	W234		WHT-31 24AWG	31		31		B DATIC				
4	W234		WHT-32 24AWG	32		32		B DATOC				
5	W234		WHT-33 24AWG	33		33		GND				
6	W234		WHT-34 24AWG	34		34		B DATOB				
7	W234		WHT-35 24AWG	35		35		B INTP IN•				
8	W234		WHT-36 24AWG	36		36		B DCHP OUT•				(J)
9	W234		WHT-37 24AWG	37		37		B DATIB				
10	W234		WHT-38 24AWG	38		38		GND				
11	W234		WHT-39 24AWG	39		39		BSELB•				
12	W234		WHT-40 24AWG	40		40		BDCHO				
13	W234		WHT-41 24AWG	41		41		BINTR•				
14	W234		WHT-42 24AWG	42		42		BIOPLS				
15	W234		WHT-43 24AWG	43		43		GND				
16	W234		WHT-44 24AWG	44		44		BIORST				
17	W234		WHT-45 24AWG	45		45		BDCHR•				
18	W234		WHT-46 21AWG	46		46		BDCHA•				
19	W234		WHT-47 24AWG	47		47		BRQENB•				
20	W234		WHT-48 24AWG	48		48		BDCHMI•				
21	W234		WHT-49 24AWG	49		49		BSTRT				
22	W234		WHT-50 24AWG	50		50		BCLR				
23	W234		WHT-51 24AWG	51		51		BDCHMQ•				
24	W234		WHT-52 24AWG	52		52		BDCHI				
25	W234		WHT-53 24AWG	53		53		BMSKD•				
26	W234		WHT-54 24AWG	54		54		BOVFLD				
27	W234		WHT-55 24AWG	55		55		BINTA				
28												
29												
30												(J)
31	W235		M17/84-RG223					KG45 XMT CLOCK	A24J012	1A5J026		
32												
33												
34												(J)
35	W236			P1		P2		DATA LINK MON	1A5J021	A24J003		
36	W236		SHLDS	B	016	B	016	INNER SHLD				
37	W236		WHT-1 22AWG	C		C		GROUND				
38	W236		WHT-2 22AWG SH	D		D		SPARE				(A)
39	W236			E	008	E		N/C				(A)
40	W236			F	008	F		N/C				

16 TIE SHIELDS TOGETHER AND TERMINATE TC DESIGNATED CONTACT
8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM INT	TO P2	TO INT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W236			G	008	G		N/C				(A)
2	W236			H	008	H		N/C				(A)
3	W236			J	008	J		N/C				(A)
4	W236		WHT-3 22AWG SH	K		K		SLAVE OUT				(A)
5	W236		WHT-4 22AWG SH	L		L		AGC MONITOR				(A)
6	W236		WHT-5 22AWG SH	M		M		XMTR PWR OUT MONITOR				(J)
7	W236		WHT-6 22AWG SH	N		N		XMT/REC KEY CONT				(J)
8	W236		WHT-7 22AWG SH	P		P		LOOP BACK CONT				(J)
9	W236		WHT-8 22AWG SH	R		R		RETURN				(A)
10												
11												
12												
13	W239			P1		P2		BACKUP	A32J002	A33J003		(J)
14	W239			B	008	B	008	INNER SHLD				(J)
15	W239			C	008			N/C				
16	W239			D	008			N/C				
17	W239			E	008			N/C				
18	W239			F	008	F	008	N/C				
19	W239			G	008			N/C				
20	W239		WHT-1 22AWG	H		C		SIGNAL RTN				
21	W239		BLK-2 22AWG TP	J		D		ADDR GEN SEL (+)				(A)
22	W239		WHT-2 22AWG TP	K		E		ADDR GEN SEL (-)				(A)
23												
24												
25												
26	W241							KEYBD INTFC	A31A1J002	A34J001		(J)
27	W241		WHT-1 24AWG TP	P1 1		P2 1		+5V				
28	W241		BLK-1 24AWG TP	5		2		GND				
29	W241		WHT-2 24AWG TP	2		20		+5V				
30	W241		BLK-2 24AWG TP	6		21		GND				
31	W241		WHT-3 24AWG TP	3		19		-12V				
32	W241		BLK-3 24AWG TP	7		18		12V RTN				
33	W241		WHT-4 24AWG TP	4		3		KBI5				
34	W241		BLK-4 24AWG TP	10		4		KBI4				
35	W241		WHT-5 24AWG TP	11		5		KBI1				
36	W241		BLK-5 24AWG TP	12		6		KBI3				
37	W241		WHT-6 24AWG TP	13		7		KBI2				
38	W241		BLK-6 24AWG TP	14		8		KBI0				
39	W241		WHT-7 24AWG TP	15		9		KBI6				
40	W241		BLK-7 24AWG TP	16		27		KBERS				

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W241		WHT-8 24AWG TP	17		10		XMITF*				
2	W241		BLK-8 24AWG TP	18		13		GND				
3	W241		WHT-9 24AWG TP	19		11		KBVSTB*				
4	W241		BLK-9 24AWG TP	20		12		GND				
5	W241		WHT-10 24AWG TP	21		24		XMITA*				
6	W241		BLK-10 24AWG TP	22		14		GND				
7	W241		WHT-11 24AWG TP	23		25		KBSTB*				
8	W241		BLK-11 24AWG TP	24		15		GND				
9	W241		WHT-12 24AWG TP	25		33		KBTP				
10	W241		BLK-12 24AWG TP	26		16		GND				
11	W241		WHT-13 24AWG TP	27		34		PARITY				
12	W241		BLK-13 24AWG TP	28		17		GND				
13	W241		WHT-14 24AWG TP	29		22		RECV*				
14	W241		BLK-14 24AWG TP	30		23		CLRXMT*				
15	W241		WHT-15 24AWG TP	32		26		KBSTN				
16	W241		BLK-15 24AWG TP	33		32		GND				
17	W241		WHT-16 24AWG TP	34		28		EDTENB				
18	W241		BLK-16 24AWG TP	35		29		KBEND				
19	W241		WHT-17 24AWG TP	36		30		STRVX*				
20	W241		BLK-17 24AWG TP	37		31		GND				
21	W241		WHT-18 24AWG TP	38		35		XMTRDY				
22	W241		BLK-18 24AWG TP	39		37		GND				
23	W241		WHT-19 24AWG	31		36		VMSW				
24	W241			8	008			N/C				
25	W241			9	008			N/C				
26	W241			40	008			N/C				
27	W241			41	008			N/C				
28	W241			42	008			N/C				
29	W241			43	008			N/C				
30	W241			44	008			N/C				
31	W241			45	008			N/C				
32	W241			46	008			N/C				
33	W241			47	008			N/C				
34	W241			48	008			N/C				
35	W241			49	008			N/C				
36	W241			50	008			N/C				
37	W241			51	008			N/C				
38	W241			52	008			N/C				
39	W241			53	008			N/C				
40	W241			54	008			N/C				

B ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM INT	TO P2	TO INT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W241			55	008			N/C				
2												
3												
4												
5	W242							COMPUTER INTFC	A31A1J003	A6A1J004		(J)
6	W242		BLK-1 24AWG	P1 1		P2 1		GND				
7	W242		BLK-2 24AWG TP	2		2		(+)OUT 6				
8	W242		WHT-2 24AWG TP	4		4		(-)OUT 6				
9	W242		WHT-3 24AWG TP	3		3		(-)OUT 5				
10	W242		BLK-3 24AWG TP	5		5		(+)OUT 5				
11	W242		BLK-4 24AWG TP	6		6		(+)OUT 4				
12	W242		WHT-4 24AWG TP	8		8		(-)OUT 4				
13	W242		WHT-5 24AWG TP	7		7		(-)STATUS B				
14	W242		BLK-5 24AWG TP	9		9		(+)STATUS B				
15	W242		WHT-6 24AWG TP	10		10		(-)OUT 7				
16	W242		BLK-6 24AWG TP	12		12		(+)OUT 7				
17	W242		BLK-7 24AWG TP	11		11		(+)STATUS A				
18	W242		WHT-7 24AWG TP	36		36		(-)STATUS A				
19	W242		BLK-8 24AWG	13		13		GND				
20	W242		BLK-9 24AWG TP	14		14		(+)CONTROL A				
21	W242		WHT-9 24AWG TP	16		16		(-)CONTROL A				
22	W242		WHT-10 24AWG TP	15		15		(-)IN 3				
23	W242		BLK-10 24AWG TP	17		17		(+)IN 3				
24	W242		BLK-11 24AWG TP	18		18		(+)CONTROL B				
25	W242		WHT-11 24AWG TP	20		20		(-)CONTROL B				
26	W242		BLK-12 24AWG TP	19		19		(+)IN 2				
27	W242		WHT-12 24AWG TP	21		21		(-)IN 2				
28	W242		WHT-13 24AWG TP	22		22		(-)OUT 2				
29	W242		BLK-13 24AWG TP	24		24		(+)OUT 2				
30	W242		WHT-14 24AWG TP	23		23		(-)IN 1				
31	W242		BLK-14 24AWG TP	25		25		(+)IN 1				
32	W242		BLK-15 24AWG TP	26		26		(+)OUT 3				
33	W242		WHT-15 24AWG TP	28		28		(-)OUT 3				
34	W242		BLK-16 24AWG TP	27		27		(+)IN 0				
35	W242		WHT-16 24AWG TP	29		29		(-)IN 0				
36	W242		BLK-17 24AWG	30		30		GND				
37	W242		BLK-18 24AWG TP	31		31		(+)IN 6				
38	W242		WHT-18 24AWG TP	33		33		(-)IN 6				
39	W242		BLK-19 24AWG	32		32		GND				
40	W242		BLK-20 24AWG	34		34		GND				

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

INTRA SHELTER CABLES

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LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W242		WHT-21 24AWG TP	35		35		(-)IN 5				
2	W242		BLK-21 24AWG TP	37		37		(+)IN 5				
3	W242		BLK-22 24AWG TP	38		38		(+)OUT 1				
4	W242		WHT-22 24AWG TP	40		40		(-)OUT 1				
5	W242		BLK-23 24AWG TP	39		39		(+)IN 4				
6	W242		WHT-23 24AWG TP	41		41		(-)IN 4				
7	W242		BLK-24 24AWG TP	42		42		(+)OUT 0				
8	W242		WHT-24 24AWG TP	44		44		(-)OUT 0				
9	W242		BLK-25 24AWG TP	43		43		(+)IN 7				
10	W242		WHT-25 24AWG TP	45		45		(-)IN 7				
11	W242		WHT-26 24AWG TP	46		46		(-)IN CLOCK				
12	W242		BLK-26 24AWG TP	48		48		(+)IN CLOCK				
13	W242		BLK-27 24AWG TP	47		47		(+)OUT BUSY				
14	W242		WHT-27 24AWG TP	54		54		(-)OUT BUSY				
15	W242		BLK-28 24AWG TP	49		49		(-)EXT GATE				(J)
16	W242		WHT-28 24AWG TP	51		51		(+)EXT GATE				(J)
17	W242		WHT-29 24AWG TP	50		50		(-)IN BUSY				
18	W242		BLK-29 24AWG TP	52		52		(+)IN BUSY				
19	W242		BLK-30 24AWG	53		53		GND				
20	W242		BLK-31 24AWG	55		55		CHASSIS GND				
21												
22												
23												
24	W243					J1		INTERCOM	A30J007	1A5J005		(J)
25	W243		SHLD- 2-9,11-23		015	B	016	INNER SHIELD				
26	W243			P1 L		C		N/C				(E)
27	W243			F		D		N/C				
28	W243			E		E		N/C				
29	W243		BLK-1 20AWG	A		F		GROUND				
30	W243		WHT-2 22AWG SH	B		G		+24VDC COMMON				(J)
31	W243		WHT-3 22AWG SH	C		H		+24VDC				(J)
32	W243			J		J		N/C				(A)
33	W243			V		K		N/C				(A)
34	W243		WHT-4 22AWG SH	D		L		RADIO A PWR RLY CONTROL				
35	W243		WHT-5 22AWG SH	H		M		RADIO A EARPHONES				
36	W243		WHT-6 22AWG SH	K		N		RADIO A FIXED AUDIO				
37	W243		WHT-7 22AWG SH	S		P		CONTROL				(J)
38	W243			R		R		N/C				(A)
39	W243			M		S		N/C				(A)
40	W243		WHT-8 22AWG SH	T		T		SQUELCH BREAK				(J)

16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT
15 FLOAT SHIELDS

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W243		WHT-9 22AWG SH	U		U		RADIO A MIC				
2	W243			N				N/C				
3	W243			P				N/C	1A15J801			(D)
4	W243		BLK-10 20AWG	3 A		V		GROUND				(E)
5	W243		WHT-11 22AWG SH	B		W		B EARPHONE AUDIO				
6	W243		WHT-12 22AWG SH	C		X		24VDC				(J)
7	W243			P		Z		N/C				(A)
8	W243		WHT-13 22AWG SH	D		*A		A KEYING				(J)
9	W243		WHT-14 22AWG SH	E		*B		INT ONLY MIC				
10	W243		WHT-15 22AWG SH	F		*C		C KEYING				
11	W243		WHT-16 22AWG SH	H		*D		INT KEYING				
12	W243		WHT-17 22AWG SH	J		*E		C EARPHONE AUDIO				
13	W343		WHT-18 22AWG SH	K		*F		A MIC				
14	W243		WHT-19 22AWG SH	L		*G		ALL MIC				
15	W243		WHT-20 22AWG SH	M		*H		A EARPHONE AUDIO				
16	W243		WHT-21 22AWG SH	N		*J		TELEPHONE LINE				
17	W243		WHT-22 22AWG SH	U		*K		TELEPHONE LINE				
18	W243		WHT-23 22AWG SH	V		*M		C MIC				
19	W243			R		*N		N/C				
20	W243			S				N/C				
21	W243			T				N/C				
22	W243								A18J008			(D)
23	W243		WHT-24 20AWG	P2 E		*P		CALL LIGHT +24VDC				(E)
24	W243		WHT-25 20AWG	B		*R		CALL LIGHT COMMON				(E)
25	W243		WHT-26 20AWG	F		*S		CALL LIGHT SW RTN				
26	W243			B	008			N/C				
27	W243			D	008			N/C				(E)
28												
29												
30												
31	W244							VRC PWR	VRC46 1A5J006	A7J021		(J)
32	W244		WHT-1 12AWG	J1 A		P1 A		RETURN				(E)
33	W244		WHT-2 12AWG	B		B		+24VDC				
34	W244			C		C		N/C				
35	W244			D		D		N/C				
36												
37												
38												
39	W245		5054471-8 22GAOS					ANT CONT	VRC46 A30ANT CONT	1A5J034		(D)
40	W245		BLK	P1 A		J1 A		BANDSW A				(E)

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM INT	TO P2	TO INT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W245		BRN	B		B		BANDSW @				
2	W245		RED	C		C		GROUND				
3	W245		ORN	D		D		POS 1				
4	W245		YEL	E		E		POS 2				
5	W245		GRN	F		F		POS 3				
6	W245		BLU	H		H		POS 4				
7	W245		VIO	J		J		POS 5				
8	W245			K		K	008	N/C				(A)
9	W245			L				N/C				(A)
10	W245			M				N/C				(A)
11	W245		GRY	N		G		+25.5VBC				(A)
12												
13												
14												
15	W246		5054448-1					RF	VRC46 A18JC02	1A5CP33		(D)
16												
17												
18												
19	W247			P1		P2		VRC46 CONT.	A30J004	A18J005		(J)
20	W247					B	008	INNER SHIELD N/C				
21	W247					C	008	N/C				
22	W247		WHT-1 20AWG	F		D		SQUELCH BREAK				
23	W247					E	008	N/C				
24	W247		WHT-2 22AWG TP	P		F		+24VDC				(J)
25	W247		BLK-2 22AWG TP	*A		G		+24VDC RTN				(J)
26	W247					H	008	GROUND N/C				
27	W247		BLK-3 22AWG TP	C		J		CONTROL				
28	W247		WHT-3 22AWG TP	G		K		CONTROL RTN				
29	W247			A	008			N/C				
30	W247			B	008			N/C				
31	W247			D	008			N/C				
32	W247			E	008			N/C				
33	W247			H	008			N/C				
34	W247			J	008			N/C				
35	W247			K	008			N/C				
36	W247			L	008			N/C				
37	W247			M	008			N/C				
38	W247			N	008			N/C				
39	W247			R	008			N/C				
40	W247			S	008			N/C				

@ ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W247			T	008			N/C				
2	W247			U	008			N/C				
3	W247			V	008			N/C				
4	W247			W	008			N/C				
5	W247			X	008			N/C				
6	W247			Y	008			N/C				
7	W247			Z	008			N/C				
8	W247			*B	008			N/C				
9	W247			*C	008			N/C				
10												
11												
12												
13	W249							VRC46 AUDIO	A30J001	1A5J022		(J)
14	W249		BLK-1 22AWG TSP	P1 A		P2 A		AUDIO				
15	W249		WHT-1 22AWG TSP	D		D		AUDIO				
16	W249		WHT-2 22AWG SH	B		B						
17	W249		WHT-3 22AWG	C		C						
18	W249					E	008	N/C				
19	W249		SHLD 1,2			F	016	SHLD GND				
20												
21												
22												
23	W250							RAD CONT.	1A5J023	A30J003		(J)
24	W250		WHT-1 22AWG	P1 A		P2 P						
25	W250		WHT-2 22AWG	B		E						
26	W250		SHLD-7,8,9	F	016	F	016	SHLD GND				(G)
27	W250		WHT-3 22AWG	D		R						
28	W250		WHT-4 22AWG	E		K						
29	W250			H	008			N/C				(F)
30	W250		WHT-5 22AWG	G		A		GND				
31	W250		WHT-6 22AWG	N		H						(E)
32	W250			J	008			N/C				
33	W250			K	008			N/C				
34	W250		BLK-7 22AWG TSP	L		J						
35	W250		WHT-7 22AWG TSP	M		D						
36	W250		WHT-8 22AWG SH	C		B						(E)
37	W250			P	008			N/C				
38	W250		WHT-9 22AWG SH	R		M						
39	W250		WHT-10 22AWG	S		C						
40	W250		WHT-11 22AWG	T		L						

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W250			U	008			N/C				
2	W250		WHT-12 22AWG	V		N						
3												
4												
5												
6	W251							28VDC	A30J002	1A5J024		(J)
7	W251		WHT-1 20AWG	P1 A		P2 B		GND				
8	W251		WHT-2 20AWG	C		E		SPARE				(E)
9	W251		WHT-3 20AWG	B		A		+24VDC				(E)
10	W251					C	008	N/C				
11	W251					D	008	N/C				
12												
13												
14												
15	W252			P1		J1		HEAT/EXCHANGER CON'	A31J003	1A5J004		(J)
16	W252			B	008	B		INNER SHIELD N/C				(E)
17	W252		WHT-1 22AWG	C		C		ON/OFF SW				(E)
18	W252		WHT-2 22AWG	D		D		POWER ON IND				(E)
19	W252		WHT-3 22AWG	E		E		LOW LEVEL IND				
20	W252		WHT-4 22AWG	F		F		LOW PRESSURE IND				
21	W252		WHT-5 22AWG	G		G		LOW FLOW IND				
22	W252		WHT-6 22AWG	H		H		HI TEMP IND				
23	W252		WHT-7 22AWG	J		I		DIRTY FILTER IND				
24	W252					J		N/C				(A)
25	W252		WHT-8 20AWG	K		K		+24VDC				
26	W252		WHT-9 20AWG	L		L		GROUND				
27	W252			M	008	M		N/C				
28	W252		WHT-10 22AWG	N		N		SPARE				
29	W252		WHT-11 22AWG	P		P		SPARE				
30	W252		WHT-12 22AWG	R		R		SPARE				
31	W252			S	008	S		N/C				
32	W252			T	008	T		N/C				
33	W252			U	008	U		N/C				
34	W252			V	008	V		N/C				
35	W252					W		N/C				
36	W252					X		N/C				
37												
38												
39												
40	W253					TB1		AC POWER	COMM 1A5J020	1A26TB1-IN		(D)

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

INTRA S[illegible]TER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W253		BLK-1 16AWG	J1 A		-1C		115VAC 400HZ HOT				(E)
2	W253		BLK-2 16AWG	A		-1D		115VAC 400HZ HOT				(A)
3	W253		GRN-3 16AWG	B		-3A		115VAC 400HZ GND				
4	W253		GRN-4 16AWG	B		-3B		115VAC 400HZ GND				(A)
5	W253		WHT-5 16AWG	C		-2A		115VAC 400HZ NEUT				
6	W253		WHT-6 16AWG	C		-2B		115VAC 400HZ NEUT				(A)
7	W253			D	008			N/C				
8												
9												
10												
11	W254			1FL2				AC POWER	PROC 1FL2-OUT	A6A1J010		(D)
12	W254		BLK-1 16AWG	E4		P1 E		115VAC 400HZ HOT				(A)
13	W254		GRN-2 16AWG	E6		G		115VAC 400HZ GND				
14	W254		WHT-3 16AWG	E5		B		115VAC 400HZ NEUT				
15	W254					C	008	N/C				
16	W254					F	008	N/C				
17	W254					A	008	(-)DC N/C				
18	W254					D	008	(+)DC N/C				
19												
20												
21												
22	W255			TB1				AC POWER	ARC164 PS 1A26TB1-2	1A20A1J001		(J)
23	W255		BLK-1 20AWG	-1E		P1 A		115VAC 400HZ HOT				(A)
24	W255		GRN-2 20AWG	-3G		B		115VAC 400HZ GND				(A)
25	W255		WHT-3 20AWG	-2G		C		115VAC 400HZ NEUT				(A)
26												
27												
28												
29	W256					TB1		AC POWER	KG45 A5J010	1A26TB1-3		(D)
30	W256		BLK-1 20AWG	P1 G		-1G		115VAC 400HZ HOT				(D)
31	W256		GRN-2 20AWG			-3H		115VAC 400HZ GND				(H)
32	W256		WHT-3 20AWG	D		-2H		115VAC 400HZ NEUT				(C)
33	W256		JUMPER TO B	A	011							
34	W256		JUMPER TO A	B	011							
35	W256		JUMPER TO H	C	011							
36	W256			E	008			N/C				
37	W256			F	008			N/C				
38	W256		JUMPER TO C	H	011							
39												
40												

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
11 INSTALL JUMPERS BETWEEN PINS INDICATED

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INTRA SHELTER CABLES                                                                REF DES REPORT
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L |CABLE ASSY |       CABLE WIRING DATA              |                         |         SYSTEM ADDRESS         |      |
I -------------------------------------------------- |                         ---------------------------------LENGTH|
N |REF      |PART|CABLE TYPE-WIRE |  FROM  |   TO    |   SYSTEM FUNCTION/      |     FROM        |      TO       |      |REMARKS
E |DES      | NO |NO-COLOR-GA-KIND------------------ |     VOLTS-AMPS          |      P1         |      P2       | FEET |
# |         |    |                | P1 |NT | P2 |NT  |                         |                 |               |      |
========================================================================================================================
 1
 2
 3
 4 W257          M17/84-RG223                         MODEM CLK                 A4J001            1A5CP30                     (J)
 5
 6
 7
 8 W258          M17/84-RG223                     005 XMIT DATA                 A5J003            A4J002                      (D)
 9
10
11
12 W259          M17/84-RG223                         RCV CLK                   A4J003            A5J001                      (D)
13
14
15
16 W260          M17/84-RG223                         RCV DATA                  A4J004            A5J004                      (D)
17
18
19
20 W261                                               AGC, DI Q AUDIO           1A22A2J006        A4J005                      (J)
21 W261          SHLDS             P1 A 016 P2 A 016  SHLD GND
22 W261          WHT-1  22AWG         B          B    GND
23 W261          WHT-2  22AWG SH      C          C    SPARE
24 W261          BLK-3  22AWG TSP     D          D    SPARE
25 W261          WHT-3  22AWG TSP     E          E    SPARE
26 W261          BLK-4  22AWG TSP     F          F    X MODE AUD RCVR
27 W261          WHT-4  22AWG TSP     G          G    RTN
28 W261          WHT-5  22AWG SH      H          H    AGC IN
29 W261          BLK-6  22AWG TSP     J          J    X MODE AUD RCVR
30 W261          WHT-6  22AWG TSP     K          K    RTN
31
32
33
34 W262                                               AGC MON, LOOP CONTROL     A4J006            1A22A2J007                  (J)
35 W262          SHLD-2-5,8        P1 A 016 P2 A 016  SHIELD
36 W262          WHT-1  22AWG         B          B    GROUND
37 W262          WHT-2  22AWG SH      C          C    SPARE
38 W262          WHT-3  22AWG SH      D          D    SPARE
39 W262          WHT-4  22AWG SH      E          E    AGC OUTPUT                                                              (J)
40 W262          WHT-5  22AWG SH      F          F    SLAVE OUT
========================================================================================================================

16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT
 5 NOT USED
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INTRA SHELTER CABLES

REF DES REPORT

L I N E #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W262		WHT-6 22AWG SH	G		G		TRANSMIT DATA OUTPUT				
2	W262		WHT-7 22AWG SH	H		H		RECEIVER DATA OUTPUT				
3	W262		SHLD-6,7	J	016	J	016	RETURN				
4	W262		WHT-8 22AWG SH	K		K		LOOP BACK CONTROL				
5												
6												
7												
8	W264			P1		P2		DATA	1A22A2J004	A1J001		(J)
9	W264		SHLDS	B	016	B	016	INNER SHLD				
10	W264			C	008			N/C				
11	W264		WHT-1 22AWG TSP	D		D		+28VDC				
12	W264		BLK-1 22AWG TSP	E		E		28VDC RTN				
13	W264		WHT-2 22AWG SH	F		F		AGC OUT				
14	W264			G	008			N/C				
15	W264			H	008			N/C				
16	W264			J	008			N/C				
17	W264		BLK-3 22AWG TSP	K		J		X-MODE XMT AUDIO				(J)
18	W264		WHT-3 22AWG TSP	L		L		AUDIO RTN				
19	W264		WHT-4 22AWG SH	M		M		SPARE				
20	W264		JUMPER TO P			•G	011	X MODE CONT IN				
21	W264		WHT-5 22AWG	P		P	011	CHASSIS GND				
22	W264		WHT-6 22AWG	R		•A		SIGNAL GND				
23	W264		WHT-7 22AWG SH	S		S		SPARE				
24	W264		BLK-8 22AWG TSP	T		•C		X-MODE RCV AUDIO				(J)
25	W264		WHT-8 22AWG TSP	U		•E		AUDIO OUT RTN				
26	W264		WHT-9 22AWG SH	V		•H		XMIT KEY				
27	W264			N	008			N/C				
28	W264		JUMPER TO N			C	011	28VDC				
29	W264		JUMPER TO C			N	C11	28VDC				
30	W264					G	008	N/C				
31	W264					H	008	N/C				
32	W264					K	008	N/C				(C)
33	W264					R	008	N/C				
34	W264					T	008	N/C				
35	W264					U	008	N/C				
36	W264					V	009	N/C				
37	W264					W	008	N/C				
38	W264					X	008	N/C				
39	W264					Y	008	N/C				
40	W264					Z	008	N/C				

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT
11 INSTALL JUMPERS BETWEEN PINS INDICATED

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM INT	TO P2	TO INT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS	
1	W264					•B	008	N/C					
2	W264					•D	008	N/C					
3	W264					•F	008	N/C					
4	W264					•I	008	N/C					
5													
6													
7													
8	W265		M17/84-RG223					DATA IN	A24J013	1A5J027		COAX	(D)
9													
10													
11													
12	W266		M17/84-RG223					R CLK OUT	1A5J028	A24J014		COAX	(D)
13													
14													
15													
16	W267		M17/84-RG223					MAIN RF	A1J002	1A22A1 IN		COAX	(J)
17													
18													
19													
20	W268		M17/84-RG223					KG DATA	1A5J029	A24J015		COAX	(J)
21													
22													
23													
24	W269		M17/84-RG223					MODEM CLK	1A5J030	A24J011		COAX	(J)
25													
26													
27													
28	W270		5054448-1					ANT LOAD	1A22A1	1A5CP31		COAX	(J)
29													
30													
31													
32	W271		5054448-1		004			ANT DATA LINK	1A5J031	U5-RF		COAX	(J)
33													
34													
35													
36	W272			P1				COSITE	A20J016	1A14			(J)
37	W272			B	08			INNER SHLD N/C					(A)
38	W272		SHLD-1 JMPR TO D	C	011			SHLD GND					(E)
39	W272		SHLD-1 JMPR TO C	D	011	E9		SHLD GND					(E)
40	W272		SHLD-2 JMPR TO F	E	011			SHLD GND					(E)

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
11 INSTALL JUMPERS BETWEEN PINS INDICATED
4 CABLE IS PREFABRICATED ON P1 END

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM INT	TO P2	TO INT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W272		SHLD-4 JMPR TO K	J	011			SHLD GND				(E)
2	W272			L	008			N/C				(A)
3	W272		BLK-1 22AWG TSP	M		E1		SLAVE 3+				(L)
4	W272		WHT-1 22AWG TSP	N		E2		SLAVE 3-				(L)
5	W272		SHLD-2 JMPR TO E	F	011	E9		SHLD GND				(E)
6	W272		BLK-2 22AWG TSP	P		E3		SLAVE 2+				(L)
7	W272		WHT-2 22AWG TSP	R		E4		SLAVE 2-				(L)
8	W272		SHLD-3 JMPR TO H	G	011			SHLD GND				(E)
9	W272		BLK-3 22AWG TSP	S		E5		SLAVE 1+				(L)
10	W272		WHT-3 22AWG TSP	T		E6		SLAVE 1-				(L)
11	W272		SHLD-3 JMPR TO G	H	011	E9		SHLD GND				(E)
12	W272		BLK-4 22AWG TSP	U		E7		MASTER -				(L)
13	W272		WHT-4 22AWG TSP	V		E8		MASTER +				(L)
14	W272		SHLD-4 JMPR TO J	K	011	E9		SHLD GND				(E)
15												
16												
17												
18	W273		5054806-5 COA-13					AUX ANT-1	1A18CP2	1A5J009		NOTE 009 (J)
19												
20												
21												
22	W274		5054806-5 COA-13					AUX ANT-2	1A18CP1	1A5J010		NOTE 009 (J)
23												
24												
25												
26	W275			P1				DC POWER	A31J002	1A5CB6		(J)
27	W275		WHT-1 16AWG TP	B		CB 6		+24VDC				
28	W275		BLK-1 16AWG TP	C				+24VDC RTN				
29												
30												
31												
32	W276					TB1		AC POWER	A4J8	1A26TB1-1		(J)
33	W276		BLK-1 20AWG	P1 A		-1H		115VAC 400HZ HOT				(A)
34	W276		GRN-2 20AWG	B		-3D		115VAC 400HZ GND				(A)
35	W276		WHT-3 20AWG	C		-2D		115VAC 400HZ NEUT				(A)
36												
37												
38												
39	W277							DC PWR	1A20A1J002	1A22A2J001		(J)
40	W277		WHT-1 20AWG TP	P1 A		P2 A		+28VDC				

11 INSTALL JUMPERS BETWEEN PINS INDICATED

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM INT	TO P2	TO INT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W277		BLK-1 20AWG TP	B		B		-28VDC RTN				
2	W277			D	008			N/C				
3	W277			E	008			N/C				
4	W277			F	008			N/C				
5												
6												
7												
8	W278		M17/84-RG223					KG XMT	1A5CP26	A5J002		(J)
9												
10												
11												
12	W279		M17/84-RG223					DATA IN	1A5CP27	A5J005		(D)
13												
14												
15												
16	W280		M17/84-RG223					P CLK OUT	A5J006	1A5CP28		(D)
17												
18												
19												
20	W281		M17/84-RG223					KG DATA	A5J007	1A5CP29		(J)
21												
22												
23												
24	W282							KG KEYHOLD 24V	1A5J025	A5J009		(J)
25	W282		WHT-1 20AWG TP	J1 A		P1 A		+28VDC				(E)
26	W282		BLK-1 20AWG TP	B		B		RTN				
27	W282			C	008	C	008	N/C				
28												
29												
30												
31	W283			P1		J1		DATA LINK MON	1A22A2J002	1A5J021		(J)
32	W283		SHLDS	B	016	B	016	INNER SHLD				
33	W283		WHT-1 22AWG	C		C		GND				
34	W283		WHT-2 22AWG SH	D		D		SPARE				(A)
35	W283					E	008	N/C				(A)
36	W283					F	008	N/C				(A)
37	W283					G	008	N/C				(A)
38	W283					H	008	N/C				(A)
39	W283					J	008	N/C				(A)
40	W283		WHT-3 22AWG SH	E		K		SLAVE OUT				

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM INT	TO P2	TO INT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W283		WHT-4 22AWG SH	F		L		AGC MONITOR				(J)
2	W283		WHT-5 22AWG SH	G		M		PWR OUT XMTR MONITOR				(J)
3	W283		WHT-6 22AWG SH	H		N		XMT/REC KEY CONT				(J)
4	W283		WHT-7 20AWG SH	J		P		LOOP BACK CONT				(J)
5	W283		WHT-8 22AWG SH	K		R		RTN CONT				
6												
7												
8												
9	W284							AUDIO	A3AUDIO	1A5J022		(J)
10	W284		BLK-1 22AWG TSP	J1 A		P1 A		AUDIO				
11	W284		WHT-1 22AWG TSP	D		D		AUDIO				
12	W284		WHT-2 22AWG SH	B		B						
13	W284		WHT-3 22AWG	C		C						
14	W284			E		E	008	N/C				
15	W284		SHLD 1,2	F	016	SHLD F						
16						GND						
17												
18												
19	W285							RAD CON	A3RAD	1A5J023		(J)
20	W285		WHT-1 22AWG	P1 A		J1 A						(E)
21	W285		WHT-2 22AWG	B		B						
22	W285		WHT-8 22AWG SH	C	015	C						(E)
23	W285		WHT-3 22AWG	D		D						
24	W285		WHT-4 22AWG	E		E						(H)
25	W285		SHLD 7,8,9	F	008	F	016	SHLD GND				(H)
26	W285		WHT-5 22AWG	G		G		GND				
27	W285		JUMPER TO N	H	011	H	008	N/C				(E)
28	W285			J	008	J	008	N/C				
29	W285			K	008	K	008	N/C				
30	W285		BLK-7 22AWG TSP	L	015	L						(H)
31	W285		WHT-7 22AWG TSP	M	015	M						(H)
32	W285		WHT-6 22AWG	N		N						(E)
33	W285		JUMPER TO H		011							(E)
34	W285			P	008	P	008	N/C				
35	W285		WHT-9 22AWG SH	R	015	R						
36	W285		WHT-10 22AWG	S		S						
37	W285		WHT-11 22AWG	T		T						
38	W285			U	008	U	008	N/C				
39	W285		WHT-12 22AWG	V		V						
40												

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
15 FLOAT SHIELDS
16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT
11 INSTALL JUMPEPS BETWEEN PINS INDICATED

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1												
2												
3												
4	W286							DC	A3PS1PWR	1A5J024		(J)
5	W286		WHT-1 20AWG	P1 A		J1 A		+24VDC				
6	W286		WHT-2 20AWG	B		B		GND				
7	W286			C	008	C	008	N/C				
8	W286			D	008	D	008	N/C				
9	W286		WHT-3 20AWG	E		E		SPARE				
10												
11												
12												
13	W287							AC POWER	COMM 1FL1OUT	1A5J020		(D)
14	W287		BLK-1 12AWG	E4		P1 A		115VAC 400HZ HOT				(A)
15	W287		GRN-2 12AWG	E6		B		115VAC 400HZ GND				
16	W287		WHT-3 12AWG	E5		C		115VAC 400HZ NEUT				
17	W287					D	008	N/C				
18												
19												
20												
21	W288			P1		P2	007	RC BUS A	A24J004	A33J002		(D)
22	W288		SHLD-5	B	016			INNER SHLD				(E)
23	W288			C	008	C	008	N/C				
24	W288			D	008	D	008	N/C				
25	W288		WHT-1 24AWG	E		E	022	CHASSIS GND				(E)
26	W288		BLK-2 24AWG TP	F		F	022	BUS STROBE A(+)				(J)
27	W288		WHT-2 24AWG TP	G		G	022	BUS STROBE A(-)				(J)
28	W288		BLK-3 24AWG TP	H		H	022	BUS CLOCK A(+)				(J)
29	W288		WHT-3 24AWG TP	J		J	022	BUS CLOCK A(-)				(J)
30	W288		BLK-4 24AWG TP	K		K	022	BUS DATA A(+)				(J)
31	W288		WHT-4 24AWG TP	L		L	022	BUS DATA A(-)				(J)
32	W288		BLK-5 24AWG TSP	M		M	022	5MHZ REF (+)				(J)
33	W288		WHT-5 24AWG TSP	N		N	022	5MHZ REF (-)				(J)
34	W288			P	008			N/C				
35	W288			R	008			N/C				
36	W288			S	008			N/C				
37	W288			T	008			N/C				
38	W288			U	008			N/C				
39	W288			V	008			N/C				
40	W288			W	008			N/C				

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
22 REQUIRES TWO (2) WIRES BE TERMINATED IN DESIGNATED CONTACTS
16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT
7 CABLE W288 IS PREFABRICATED ON P2 END OF CABLE HARNESS

INTRA SHELTER CABLES

REF DES REPORT

L I N E #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W288			X	008			N/C				
2	W288			Y	008			N/C				
3	W288			ZY	008			N/C				
4	W288			•A	008	•A	008	N/C				
5	W288			•B	008	•B	008	N/C				
6	W288			•C	008	•C	008	N/C				
7	W288		JUMPER NO.1			P	011	UNIT ADDR A5				(A)
8	W288		JUMPER NO.1			R	011	UNIT ADDR A4				(A)
9	W288					S	008	UNIT ADDR A3 N/C				(A)
10	W288		JUMPER NO.1			T	011	UNIT ADDR A2				(A)
11	W288		JUMPER NO.1			U	011	UNIT ADDR A1				(A)
12	W288		JUMPER NO.1			V	011	UNIT ADDR A0				(A)
13	W288		JUMPER NO.1			W	011	UNIT ADDR RTN				(A)
14	W288		JUMPER TO Y,Z			X	011	MONITOR ENABLE				
15	W288		JUMPER TO X,Z			Y	011	ADDR GEN ENABLE •				
16	W288		JUMPER TO X,Y			Z	011	ENABLE RETURN				
17	W288		SHLD-10	P3 B	016	P2		INNER SHLD	A23J022	A33J002		(J)
18	W288			C	008			N/C				
19	W288			D	008			N/C				
20	W288		WHT-6 24AWG	E		E	022	CHASSIS GND				(E)
21	W288		BLK-7 24AWG TP	F		F	022	BUS A STROBE(+)				(J)
22	W288		WHT-7 24AWG TP	G		G	022	BUS A STROBE(-)				(J)
23	W288		BLK-8 24AWG TP	H		H	022	BUS A CLOCK(+)				(J)
24	W288		WHT-8 24AWG TP	J		J	022	BUS A CLOCK(-)				(J)
25	W288		BLK-9 24AWG TP	K		K	022	BUS A DATA(+)				(J)
26	W288		WHT-9 24AWG TP	L		L	022	BUS A DATA(-)				(J)
27	W288		BLK-10 24AWG TSP	M		M	022	5MHZ REF (+)				(J)
28	W288		WHT-10 24AWG TSP	N		N	022	5MHZ REF (-)				(J)
29	W288			P	008			UNIT ADDR A5 N/C				(J)
30	W288		JUMPER NO.2	R	011			UNIT ADDR A4 N/C				(J)
31	W288		JUMPER NO.2	S	011			UNIT ADDR A3 N/C				(J)
32	W288			T	008			N/C				(A)
33	W288			U	008			N/C				(A)
34	W288			V	008			N/C				(A)
35	W288		JUMPER NO.2	W	011			ADDRESS RTN				(A)
36	W288			X	008			N/C				(A)
37	W288			Y	008			N/C				(A)
38	W288			Z	008			N/C				(A)
39	W288			•A	008			N/C				(A)
40	W288			•B	008			N/C				(A)

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
11 INSTALL JUMPERS BETWEEN PINS INDICATED
22 REQUIRES TWO (2) WIRES BE TERMINATED IN DESIGNATED CONTACTS
16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT

Change 1

INTRA SHELTER CABLES REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W288			•C	008			N/C				(A)
2	W288		SHLD-5,10			B	016	INNER SHLD				
3												
4												
5												
6	W289			P1		P2		RC BUS B	A23J023	A33J004		(D)
7	W289		SHLD-6	B		B		INNER SHLD				
8	W289		BLK-1 24AWG TP	C		C		SPARE				
9	W289		WHT-1 24AWG TP	D		D		SPARE				
10	W289		WHT-2 24AWG	E		E		CHASSIS GND				
11	W289		BLK-3 24AWG TP	F		F		STROBE(+) BUS B				
12	W289		WHT-3 24AWG TP	G		G		STROBE(-) BUS B				(J)
13	W289		BLK-4 24AWG TP	H		H		CLOCK(+) BUS B				(J)
14	W289		WHT-4 24AWG TP	J		J		CLOCK(-) BUS B				(J)
15	W289		BLK-5 24AWG TP	K		K		DATA(+) BUS B				(J)
16	W289		WHT-5 24AWG TP	L		L		DATA(-) BUS B				(J)
17	W289		BLK-6 24AWG TSP	M		M		5MHZ REF OSC(+)(NOT USED				(A)
18	W289		WHT-6 24AWG TSP	N		N		5MHZ REF OSC(-)(NOT USED				(A)
19	W289			P	008			UNIT ADDR A5 N/C				(E)
20	W289			R	011			UNIT ADDR A4 N/C				(A)
21	W289			S	011			UNIT ADDR A3 N/C				(A)
22	W289			T	011			UNIT ADDR A2 N/C				(A)
23	W289			U	011			UNIT ADDR A1 N/C				(A)
24	W289			V	011			UNIT ADDR A0 N/C				(A)
25	W289			W	011			ADDRESS RTN				(A)
26	W289					P	008	UNIT ADDR A5 N/C				(A)
27	W289					R	008	UNIT ADDR A4 N/C				(A)
28	W289					S	008	UNIT ADDR A3 N/C				(A)
29	W289					T	008	UNIT ADDR A2 N/C				(A)
30	W289					U	008	UNIT ADDR A1 N/C				(A)
31	W289					V	008	UNIT ADDR A0 N/C				(A)
32	W289					W	008	ADDR RET N/C				(A)
33	W289					X	008	N/C				(A)
34	W289			X	008			ADDRESS GEN ENABLE•				(A)
35	W289			Y	008							(J)
36	W289		JUMPER TO Z			Y	011	PAN AD GEN EN				
37	W289		JUMPER TO Y			Z	011	ENABLE RTN				
38	W289			Z	008			N/C				(A)
39	W289			•A	008			N/C				(A)
40	W289			•B	008			N/C				(A)

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
11 INSTALL JUMPERS BETWEEN PINS INDICATED
16 TIE SHIELDS TOGETHER AND TERMINATE TO DESIGNATED CONTACT

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W289			*C	008			N/C				(A)
2	W289					*A	008	N/C				
3	W289					*B	008	N/C				
4	W289					*C	008	N/C				
5												
6												
7												
8	W290		5054448-1 COAX		004			BITE ANTENNA	1A5CP032	1E1 RF		(J)
9												
10												
11												
12	W291		5054471-8 22GAOS		004			ANT CONT VRC46	1A5J034	U6J002		(D)
13	W291		BLK	P1 A	023	P2 A		BANDSW A				(A)
14	W291		BRN	B		B		BANDSW B				(A)
15	W291		RED	C		C		GROUND				(A)
16	W291		ORN	D		D		POS 1				(A)
17	W291		YEL	E		E		POS 2				(A)
18	W291		GRN	F		F		POS 3				(A)
19	W291		BLU	H		H		POS 4				(A)
20	W291		VIO	J		J		POS 5				(A)
21	W291		GRY	G		N		+25.5VDC				(A)
22	W291			K	008	K		N/C				(A)
23	W291					L		N/C				(A)
24	W291					M		N/C				(A)
25	W291				020			GND				
26												
27												
28	W292		5054448-1 COAX		004			RF VRC46	1A5J033	U6J001		(E)
29												
30												
31												
32	W401		5054471-5 20GAOS					CONT/STATUS	1A5J007	1A17J002	14	(L)
33	W401		BLK 20AWG	P1 A	019			SHLD GND				(E)
34	W401		BLK 20AWG	B	019			SHLD GND				(E)
35	W401			C				N/C				(E)
36	W401		WHT/ORG	D		P2 F		TANK AIR PRESS LOW				(E)
37	W401		WHT/RED	E		A		CPRSR CONT RELAY(MAGIC)				(E)
38	W401		WHT/BRN	F		G		MAST PRESS NORMAL (MAST)				(E)
39	W401		WHT/BLK	G		N		TK PRESS NORM (NOT USED)				(E)
40	W401		WHT	H		E		SPARE)				(E)

8 ALL MULTIPIN CRIMP CONNECTORS WILL HAVE THEIR CONTACTS INSTALLED
4 CABLE IS PREFABRICATED ON P1 END
19 NOT USED
20 TERMINATE OUTER SHIELD TO ADAPTER
23 WIRE IN THE SHELTER

INTRA SHELTER CABLES

REF DES REPORT

LINE #	CABLE ASSY REF DES	CABLE ASSY PART NO	CABLE WIRING DATA CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM P1	FROM NT	TO P2	TO NT	SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS FROM P1	SYSTEM ADDRESS TO P2	LENGTH FEET	REMARKS
1	W401		GRA	J		B		UP SOLENOID				(E)
2	W401		VIO	K		H		DN SOLENOID				(E)
3	W401		BLU	L		M		MAST SW +24V				(E)
4	W401		GRN	M		I		MAST SW DEPLOY				(E)
5	W401		YEL	N		L		PRESS SW-LOW PRESS				(E)
6	W401		ORG	P		D		COMP ON				(E)
7	W401		RED	R		J		MAST DN CONFIRMED				(E)
8	W401		BRN	S		C		SOLENOID RTN				(E)
9	W401		BLK	T		K		PRESS SW COMMON				(E)
10												
11												
12												
13												
14	W408		5054471-2						2A1A2J9	1A8J002		(E)
15	W408		BLK 12GAOS	P1 A		P2 A		+24VDC (BATT)				(E)
16	W408		BLK 20AWG	B				SHLD GND				(E)
17	W408			C				N/C				(E)
18	W408		BRN 12GAOS	D		D		-24VDC (BATT)				(E)
19	W408		RED 16GACS	E		C		SPARE				(E)
20	W408		ORN 16GAOS	F		F		SPARE				(E)
21	W408			G				N/C				(E)
22	W408					B		N/C				(E)
23	W408					E		SPARE				(E)
24	W408					G		GND				(E)
25												(E)
26												
27												
28												
29	W410		5054471-4 20GAOS			S4	015	LP ANT CONTROL	1A17J003	154		(J)
30	W410		BLK	P1 A		2-NC		MAST SW DEPLOY				(E)
31	W410		BRN	B		1-C		MAST SW INTLK				(E)
32	W410		RED	C		3-C		MAST SW CONFIRM				(E)
33	W410		ORN	D		4-ND		MAST SW +24V				(E)
34												
35												
36												
37												
38												
39												
40												

15 FLOAT SHIELDS

Change 1

LINES	CABLE ASSY		CABLE TYPE-WIRE NO-COLOR-GA-KIND	FROM		TO		SYSTEM FUNCTION/ VOLTS-AMPS	SYSTEM ADDRESS		LENGTH FEET	REMARKS
	REF DES	PART NO.		P1	NT	P2	NT		FROM P1	TO P2		
1	W414		5054471-5 20GA DS						1A17J1	1A8J1	9.5	(K)
2	W414		WHT/RED	P1A		P2A		CPSR CONT RELAY				
3	W414		GRA	B		B		OUT (+24 Vdc)				
4	W414		WHT/BLK	C		C		-24 Vdc (BTRY)				
5	W414		WHT	D		D						
6	W414		WHT/BRN	E		E		HEATER SWITCH				
7	W414		WHT/ORG	F		F		TANK PRESS LOW				
8	W414		BRN	G		G						
9	W414		VIO	H		H		IN (+24 Vdc)				
10	W414		BLK	I		I		SAFETY (+24 Vdc)				
11	W414		GRN	J		J		-24 Vdc (BATTERY)				
12	W414		YEL	K		K		+24 Vdc (BTRY)				
13	W414		RED	L		L		MAST ERECTION CONTROL				
14	W414		ORG	X		M		+24 Vdc (BTRY)				
15	W414		BLU	N		N		PRESS IND NORMAL				
16												

CODE ID NO. 57958
REV L

DRAWING NO. 5053204
SHEET 68

Change 1

CHAPTER 5

GENERAL SUPPORT MAINTENANCE INSTRUCTIONS

Section I. GENERAL

5-1. **SCOPE.** This chapter provides the information required to perform the tasks allocated to General Support (GS) maintenance personnel by the Maintenance Allocation Chart (MAC).

Section II. TOOLS AND EQUIPMENT

5-2. **TOOLS AND EQUIPMENT.** Refer to the MAC in Appendix B and the Repair Parts and Special Tools List (RPSTL) in Appendix C.

Section III. TROUBLESHOOTING

5-3. **SCOPE.** This section describes the troubleshooting procedures for modules and assemblies removed from the system and allocated to GS maintenance for repair.

5-4. **MODULE/ASSEMBLY TROUBLESHOOTING.** Troubleshooting at GS is limited to testing of the ARC-164 power supply A20A1. Table 5-1 provides the troubleshooting procedure for A20A1.

Section IV. MAINTENANCE

5-5. **SCOPE.** This section provides maintenance instructions for modules/assemblies allocated to GS in the MAC.

5-6. **MAINTENANCE OF POWER SUPPLY (1A20A1).** When 1A20A1 is received for repair, carry out the tasks described in the following subparagraphs.

5-6.1 Inspect. Inspect as follows:

a. Check the assembly for accumulations of dirt and grease. Clean as necessary.

b. Check the exterior for loose, missing or damaged hardware. Secure or replace as necessary.

Table 5-1. Power Supply (1A20A1) Troubleshooting Chart

Step	Test condition	Procedures	Normal indication	Remarks and further checks
1	Bench Test, cover removed.	Check the wiring for continuity. Refer to table 5-2.	Continuity	Replace/repair damaged wiring or connectors.
2	As for step 1.	Check output voltage of power supply module as follows:		
		a. Connect 115 VAC, 400 Hz supply to J1-A(L) and J1-C(N).		
		b. Check the voltage between pin J2-A(+) and pin J2-B(-).	28 ± 1 VDC	No voltage, very high or very low voltage: replace module.
		c. Use the potentiometer on the module to adjust the output voltage to the correct level.	28 ± 1 VDC	Output cannot be adjusted. Replace module

c. Remove the assembly cover as follows:

   (1) Remove and retain the ten (10) screws, flat washers and lock washers securing the cover.

   (2) Lift off the cover.

d. Check for signs of overheating, broken, loose or damaged wiring. Repair as necessary.

5-6.2 Test. Test the assembly as described in para 5-4.

5-6.3 Repair. Repair of the power supply is accomplished by replacing faulty or damaged components of the power supply module as follows:

a. Remove and retain the ten (10) screws and washers securing the top cover on the chassis.

b. Label and unsolder the connections to the power supply module, refer to table 5-2 for wiring information.

c. Remove and retain the four (4) screws securing the module to the chassis and remove the module.

d. Secure the replacement module in the power supply chassis using the screws and washers retained in para c. above.

e. Solder the wires to the pins of the module as described in table 5-2. Ensure all connections are secure.

f. Adjust the power supply module voltage as described in para 5-6.4.

Table 5-2. Power Supply (ARC-164) 1A20A1, Wire List

Wire no.	From	To
1	J1-A	PS1-2 (115 VAC L)
2	J1-B	GND (E1)
3	J1-C	PS1-1 (115 VAC N)
4	J2-A	PS1-3 (+28 VDC)
5	J2-B	PS1-4 (RTN)
6	J2-C	GND (E2)

5-6.4 Adjust. When the output voltage is out of tolerance or the module has been replaced, adjust as follows:

a. Remove top cover.

b. Connect a 115 ± 5 VAC, 400 ± 20 Hz power source to J1 as described in table 5-1.

c. Connect a multimeter, set to the 200 VDC range, to measure the voltage between pin A (positive) and pin B (negative) of J2.

d. Loosen the clamp on the power supply potentiometer.

e. Switch on the 115 VAC supply.

f. Adjust the potentiometer until the meter reads 28 ± 1 VDC. Tighten the clamp.

g. Switch off the 115 VAC supply and remove the connections from J1.

h. Replace the top cover.

5-7. **MAINTENANCE OF TRANSMITTER (A35-A37).** Maintenance tasks for A35-A37 are described in the following subparagraphs.

5-7.1 Inspect. Procedures for inspection of A35-A37 are described in TM 32-5865-073-24&P, Organizational, Direct Support and General Support Maintenance Manual including Repair Parts, and Special Tools List for Transmitter, Countermeasures T-1439/MLQ-34.

5-7.2 Test. Procedures for testing the Transmitter are provided in Chapter 4 of this TM. Additional test procedures are provided in TM 32-5865-073-24&P.

5-7.3 Removal. To remove a Transmitter from the system, carry out the following steps:

WARNING

To avoid possible injury to personnel and/or damage to equipment, these procedures require a fork lift vehicle, two transmitter lifting aides, GTE P/N 98-1274861 (-1 and -2), and special lifting aid fasteners.

NOTE

When installing A35, the Transmitter nearest the shelter wall, eliminate step p. of this procedure.

a. Open Transmitter circuit breakers on PDP.

b. Remove operator's seat. Refer to para 2-9.7.1.

c. Disconnect RF output cable from Transmitter.

d. Secure RF cable removed in previous step in cable clamps above transmitter rack.

e. Loosen four (4) captive cap screws, two (2) at top and two (2) at bottom, securing Transmitter to the transmitter rack.

NOTE

Because of the lack of clearance between locking handles, the locking latches have to be tripped open in sequence; otherwise the locking latch operations interferes with each other.

f. Release handle retaining locks and pull Transmitter out until slide drawer assembly locks in the 'out' position.

g. Disconnect cables from J1 - J8 and AR1J1.

CAUTION

To avoid damage to equipment, wrap rags around the quick-disconnect coolant hose couplings.

h. Disconnect the quick-disconnect coolant hose couplings.

i. Remove and retain two 1/4-20 screws and washers securing the Transmitter to the front of the top slide-drawer assembly.

j. Remove and retain pivot shoulder bolt securing rear part of transmitter to rear part of slide-drawer assembly.

k. Push top slide drawer assembly all the way in.

l. Remove and retain two cap screw retainers from top of front part of transmitter.

m. Remove and retain upper alignment guide pin assemblies at the top of the rear panel of the Transmitter. Retain all hardware.

CAUTION

To avoid damage to equipment, ensure that shoulder bolts securing lifting aids to the Transmitter are properly seated in the appropriate holes of the Transmitter chassis.

n. Secure transmitter lifting aid 98-1274861-1 to top front of the chassis and 98-1274861-2 to the top rear of the Transmitter.

WARNING

To avoid possible injury to personnel and/or damage to equipment, fork lift vehicle with 6 to 9 foot forks are recommended and transmitter must be lifted with proper balance on forks.

o. Carefully maneuver forks under both ends of both lifting aids.

p. Remove and retain the eight (8) 1/4 - 20 cap screws and washers securing the base of the Transmitter to the slide-drawer assembly.

q. Carefully lift transmitter approximately two inches up from the bottom slide drawer assembly.

r. Carefully remove the transmitter from the shelter.

CAUTION

To avoid damage to bottom key and mating surfaces, transmitter must be stored and secured on a dolly made for the purpose of storage. The transmitter should not be placed on the floor or ground.

s. Store transmitter in a safe area.

5-7.4 Installation. To install a Transmitter, carry out the following steps:

a. Carefully place Transmitter on extended and locked bottom slide drawer assembly.

WARNING

To avoid possibility of crushed fingers, personnel must use extreme caution during these procedures.

NOTE

The Transmitter nearest to the roadside Shelter wall must be maneuvered on the bottom slide drawer assembly until the bottom pivot pin, located near the rear of the bottom slide drawer assembly, is inserted into the bushing on the bottom of the Transmitter.

b. Carefully align Transmitter on the bottom slide drawer assembly.

c. Remove and store transmitter lifting aids and the mounting bolts and nuts.

d. Reverse steps i. thru m. and p. of para 5-7.3.

CAUTION

To avoid possible damage to equipment, the four (4) conical shaped alignment guide pin assemblies on the back of the Transmitter, two (2) on top and two (2) on the bottom and the alignment pin receptacles in the transmitter rack must be properly aligned.

NOTE

It is suggested that alignment guide pin assemblies be aligned one at a time. This will require removal of all but one of the remaining guide pins.

NOTE

Guide pins are aligned by a trial and error process. The guide pin assembly is installed with the locknut tightened with the fingers (no axial movement, but free to rotate in the bushing). The Transmitter is carefully pushed into the rack, and if there is improper alignment of the guide pin and receptacle, the Transmitter is pulled out of the rack; the guide pin is rotated slightly; and the Transmitter is carefully pushed back into the transmitter rack. When proper seating of the guide pin is accomplished, the Transmitter is pulled out of the rack, and the guide pin is held stationary while the locknut is tightened securely.

e. Carefully align four alignment guide pins with their guide pin assemblies.

f. Reverse steps a. through h. of para 5-7.3.

5-8. **MAINTENANCE OF TRANSMITTER EQUIPMENT RACK (MP4).** Maintenance tasks for the MP4 are described in the following subparagraphs.

5-8.1 Inspect. Procedures for inspected MP4 are described in Chapter 2 (PMCS) of this TM.

5-8.2 Repair. Repair of MP4 is accomplished by replacing faulty or damaged components as follows:

WARNING

To avoid damage to equipment or fatal injury to personnel, all work done in this procedure is to be done with AC power circuit breaker on Power Distribution Panel, open.

a. To remove transmitter pivotal slide drawer mounting plate:

  (1) Remove transmitter A35, refer to para 5-7.3.

  (2) Remove and retain twelve (12) screws and washers securing the pivotal transmitter mounting plate to the three slide drawer assemblies.

  (3) To install pivotal transmitter mounting plate, reverse step a.(2) above.

b. To remove plain slide drawer transmitter mounting plate:

  (1) Remove Transmitter A36 and/or A37. Refer to para 5-7.3.

  (2) Remove and retain four (4) screws and washers securing transmitter mounting plate to center slide drawer assembly. Remove mounting. plate.

  (3) To install plain transmitter mounting plate, reverse step b.(2) above.

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c. To replace individual bottom drawer slide assembly:

(1) Remove appropriate Transmitter. Refer to para 5-7.3.

(2) Remove appropriate transmitters mounting plate. Refer to steps a. or b. above, as applicable.

(3) Remove and retain four (4)screws and washers securing blank panel to the three (3) slide drawer assemblies. Retain blank panel for reassembly.

NOTE

Use access holes in slide drawer assembly to reach and remove the two most forward screws.

(4) Remove and retain eight (8) screws and shims securing drawer to transmitter equipment rack.

(5) To install a replacement drawer slide assembly:

(a) Use shims as required.

(b) Reverse steps c.(2) through (4) above.

d. To remove individual top drawer slide assembly:

(1) Remove appropriate Transmitter. Refer to para 5-7.3.

(2) Remove and retain two (2) screws securing blank panel to drawer slide assembly. Retain blank panel for reassembly.

NOTE

Use access holes in slide drawer assembly to reach and remove the two most forward screws.

(3) Support drawer assembly and remove eight (8) screws and shims securing drawer assembly to transmitter equipment rack.

NOTE

Installation of top drawer slide assembly requires a helper.

(4) To install a replacement drawer slide assembly:

(a) Use shims as required.

(b) Reverse steps d.(2) and (3) above.

e. To remove negator cable retractor:

(1) Access Shelter front. Refer to para 4-5.1.

(2) Remove pressure tank. Refer to para 4-6.5.5.

(3) Remove air compressor control assembly. Refer to para 2-9.6.5.

(4) Remove and retain two screws, washers and loop clamps securing pneumatic hose to transmitter access panel.

(5) Remove 34 captive screws securing transmitter access panel to shelter.

WARNING

The transmitter access panel weighs approximately 165 pounds. To avoid possible injury to personnel, and/or damage to equipment, two persons are required to handle the panel.

(6) Remove the transmitter access panel.

(7) Locate the defective negator motor.

(8) Disconnect retractor cable spring from transmitter control cable.

(9) Support negator motor and remove and retain four (4) screws, self-locking nuts, and washers securing negator motor to support structure.

(10) Remove and discard faulty negator motor.

(11) To install a replacement negator motor, reverse steps e.(1) through (9) above.

5-9. MAINTENANCE OF DISPLAY SET LAMP TEST CCA (A31A2). Maintenance tasks for CCA A31A2 are described in the following subparagraphs.

5-9.1 Removal. To remove A31A2 from the display set, carry out the following steps:

a. Remove and retain eight (8) screws, flat washers, and lock washers securing protective cover.

b. Remove cover.

c. Pull cover away from the unit to provide ample room to work.

d. Remove and retain four (4) counter-sunk screws securing status switch assembly to the front end of the chassis.

e. Lift status switch assembly approximately two (2) inches and press the unit against the chassis wall opposite A2.

f. Remove and retain four (4) screws and washers securing A2 to chassis.

g. Carefully maneuver A2 from its position against the chassis.

CAUTION

To avoid damage to equipment, ensure that A2 is clear of all other wiring.

h. Label and unsolder wires to A2.

i. To install new A2, reverse procedural steps a. through h. above.

5-9.2 Test. Procedures for testing A31A2 are described in table 5-3.

5-9.3 Repair. Repair of A31A2 is accomplished by replacing faulty or damaged components. Refer to NAVTORPSTA REPORT 1347, Guide Manual for Repair of Electronic Modules, for component replacement.

5-10. **REPAIR OF SHELTER (A5).** Repairs to the Shelter are described in TM 32-5410-002-24&P, Organizational, Direct Support and General Support Maintenance Manual for Shelter Electrical Equipment S-595/G. TM 32-5410-002-24&P depicts the Shelter before AN/MLQ-34 equipment is installed. When repair to the Shelter requires removal of equipment racks for access, carry out the following procedures.

5-10.1 Removal of Equipment Racks. Removal of equipment racks (HP1 thru HP4) complete with integral rack cabling is described below. Racks MP2 and MP3 are bolted together and cabled as one assembly. MP2/MP3 should be treated as a single item for removal/installation.

WARNING

The following procedures must be carried out with power disconnected from the Shelter.

a. Receiver and Control racks (MP2/MP3). MP2/MP3 is removed as follows:

   (1) Remove Shelter from Carrier. Refer to para 4-6.7.2.

   (2) Remove all installed units, blank panels and storage cabinet. Refer to paras 2-9 and 4-5.

   (3) Access system CPU. Refer to para 2-9.1.3.

   (4) Remove access panel at rear-curbside of shelter. Refer to TM 32-5410-002-24&P.

   (5) Slide out air conditioner and attach support rod. Refer to para 4-6.7.1.

NOTE

To prevent damage and entry of dirt and moisture, use masking tape or other suitable cover on connectors removed in steps (6) and (7).

Table 5-3. Lamp Test CCA (A31A2), Troubleshooting Chart

Step	Test condition	Procedures	Normal indication	Remarks and further checks
1	CCA removed from chassis. (Refer to paragraph 5-9.1).	Check forward resistance of each even numbered diode as follows: a. Set multimeter to 2 K ohm range. b. Connect negative lead (black) to pin 6 on the CCA. c. Connect positive lead (red) to pins 1 thru 5, 7 thru 10, and 29 thru 32 in turn.	100 - 200 ohms	Resistance reading outside the normal indiaction range indicates a faulty diode. Replace any faulty diodes.
2	As for 1 above.	Check forward resistance of each odd numbered diode as follows: a. Set multimeter to 2 K ohm range. b. Connect the positive (red) lead to the anode connection on the CCA, refer to table 5-4. c. Connect the negative (black) lead to the cathode connection on the CCA, refer to table 5-4. d. Read measured resistance.	100 - 200 ohms	

Table 5-4. Table of Diode Connections

	CCA Pin Connections	
Diode	Cathode	Anode
CR1	11	1
CR3	12	2
CR5	13	3
CR7	14	4
CR9	15	5
CR11	16	7
CR13	17	8
CR15	18	9
CR17	19	10
CR19	20	29
CR21	21	30
CR23	22	31
CR25	23	32

(6) Remove connectors listed below from terminations outside rack. Refer to System Interconnect diagram FO-10.

NOTE

A long reach socket is required on jam-nut securing connectors to air conditioner compartment bulkhead.

W122P1
W122P2
W139 (E1, E2, E8)
W140 (E1, E2, E8)
W199P2
W231P1
W233P2
W233P3
W234P2
W235P2
W236P1
W242P2

W245J1
W247P2
W249P2
W250P1
W251P2
W264P1
W264P2
W265P2
W266P1
W268P1
W269P1

CAUTION

When unfastening tie-wraps, take care not to cut or damage cables in the harness.

(7) Remove tie-wraps and undress cabling from rack harness as follows:

W103
W108
W113
W123
W128
W166
W178
W190
W151
W146
W168
W180
W192
W169
W181
W193
W167
W179
W191
W160
W173
W185
W195
W196
W197
W226
W243
W244
W272
W275

(8) Remove and retain hardware securing flexible air duct to top of racks.

(9) Remove and retain hardware securing rack to shock mounts on floor and curbside wall of shelter.

WARNING

To avoid injury to personnel a minimum of two persons is required to perform the following step.

(10) Raise racks sufficiently to clear shock mounts. Carefully pull forward and feed the cables removed in step (5) through the cutout at the bottom of MP2.

(11) Tie cables disconnected in step (4) to rack to prevent damage.

(12) Remove hardware securing shelter door brace at Shelter entrance. Refer to TM 32-5410-002-24&P.

(13) Remove MP2/MP3 from Shelter.

(14) To re-install, reverse steps (1) thru (13) above.

b. Amplifier Control Rack (MP1). MP1 is removed as follows:

(1) Remove Shelter. Refer to para 4-6.7.2.

(2) Remove LPA mast. Refer to para 4-6.5.3.

(3) Remove Pressure Tank. Refer to para 4-6.5.5.

(4) Remove access panel front roadside of shelter. Refer to TM 32-5410-002-24&P.

(5) Remove MP2/MP3. Refer to para 5-10.1.

(6) Remove all installed units and blank panels. Refer to paras 2-9 and 4-6.

(7) Remove air regulator/check valve assembly from side of rack. Refer to para 2-9.6.6.

NOTE

To prevent damage and contamination by dirt and moisture, use masking tape or other suitable covering on connectors removed in steps (8) and (9).

(8) Remove connectors listed below from terminations outside rack, refer to FO-10 for cable routing.

W100P1
W101P1
W104P2
W105P2
W110P1
W111P1
W114P2
W115P2
W116P2
W120P1
W121P1
W124P2
W125P2
W126P2
W127P1
W138 (E1, E2, E8)

CAUTION

When unfastening cable ties take care not to cut or damage cables in the harness.

(9) Remove cable-ties and undress the following cables from the rack harness:

W159
W172
W184

(10) Remove and retain hardware securing coolant manifold to side of rack.

(11) Remove and retain hardware securing flexible air duct to top of rack.

(12) Remove and retain hardware securing rack to shock mounts on floor and curbside wall.

WARNING

To avoid injury to personnel a minimum of two persons is required to perform the following step.

(13) Raise rack sufficiently to clear shock mounts. Carefully pull forward and feed out cables removed in step (9).

(14) Continue pulling the rack forward until access to the rear is possible.

(15) Remove cable raceway covers and cable clamps. Carefully feed cables from Receiver Rack through cable raceway to the rear of the rack.

(16) Tie cables to rack to prevent damage.

(17) Using a fork lift, remove rack from Shelter.

(18) To re-install reverse steps (1) thru (17) above.

c. Transmitter rack (MP4). MP4 is removed as follows:

NOTE

To prevent damage and contamination by dirt and moisture, use masking tape or other suitable covering all connectors removed during this procedure.

(1) Remove Shelter from carrier. Refer to para 4-6.7.2.

(2) Remove A35-A37, 1AT1 and 1AT2. Refer to para 5-7.3 and 4-6.2.4.

(3) Remove and retain Pressure Tak, refer to para 4-6.5.5.

(4) Remove and retain access panel at front roadside of Shelter. Refer to TM 32-5410-002-24&P.

(5) Remove and retain rack rear panel.

(6) Remove and retain seven of the eight cable retractor brackets secured to rear of the rack. Access to the remaining bracket on the roadside of the assembly is obtained when the rack is moved towards the rear of the Shelter.

(7) Dress rack cables and hoses on the curbside of the access opening and secure clear of the opening.

(8) Remove co-axial cables secured to plenum at top of rack.

(9) Remove and retain hardware securing plenum to top of rack and shock mount on roadside wall.

(10) Remove and retain hardware securing flexible air duct to plenum.

(11) Remove and retain bolts securing rack to shock mounts (12 places).

WARNING

To avoid injury to personnel, a minimum of two persons is required to perform the following step.

(12) Move rack towards the shelter rear to allow access to shock mount bracket secured to shelter ceiling.

(13) Remove and retain shock mount bracket.

(14) Slide rack towards access opening until the front of the rack drops off shock mounts.

(15) Remove and retain plenum.

WARNING

To avoid injury to personnel, a minimum of two persons is required to perform the following step.

(16) Raise rack and move far enough into shelter to allow rack to be turned through 90 degrees.

(17) Remove and retain remaining cable retractor mounting bracket.

(18) Using a fork lift, remove through access opening in front of Shelter.

Section V. TESTING AFTER REPAIR

5-11. **SCOPE.** This section provides information for testing repaired modules/assemblies.

5-12. **TEST AFTER REPAIR.** Repaired modules/assemblies must meet all the requirements of test before being returned to service. Following completion of repair, refer to Section III, Troubleshooting for detailed test data.

APPENDIX A

REFERENCES

Reference	Title
FM 21-11	First Aid for Soldiers
TM 5-4120-370-14	Operator's, Organizational, Direct Support, and General Support Maintenance Manual for Air Conditioners, Vertical, Compact 36,000 BTU/HR cooling, 28,000 BTU/MR Heating, 208 Volt, 3 phase, 400 Hertz.
TM 9-2350-247-10 W/Change 2	Operator's Manual, Carrier Cargo, Tracked, 6-Ton: M548 (2350-00-078-4545)
TM 9-2350-247-20 W/Change 1	Organization Maintenance Manual, Carrier Cargo Tracked 6 - Ton: M548 (2350-00-078-4545)
TM 9-2350-247-34 W/Change 2	Direct-Support and General Support Maintenance Manual, Carrier Cargo, Tracked, 6 - Ton: M548 (2350-00-078-4545)
TM 11-5810-312-12	Operator's and Organizational Maintenance Manual: Installation Kits for Communications Security Equipment TSEC/KY-57
TM 11-5820-401-12	Operator's and Organizational Maintenance Manual Including Repair Parts and Special Tools Lists for Radio Sets AN/VRC-12, AN/VRC-43, AN/VRC-45, AN/VRC-46, AN/VRC-47, AN/VRC-48, AN/VRC-49, AN/VRC-54, and AN/VRC-55; Mounting MT-1898/VRC Antenna AT-912/VRC; Control, Frequency Selector C-2742/VRC and Control, Radio Set C-2299/VRC.
TM 11-5821-311-12	Operator's and Organizational Maintenance Manual for Receiver Transmitter Radio RT-1167/ARC/ARC-164(V) (NSN 5821-00-138-7790).
TM 11-5915-223-12	Operators and Organizational Maintenance Manual Including Repair Parts and Special Tool Lists: Suppressor Electrical Transient MX-7778/GRC and MX-7778A/GRC.
TM 11-5985-365-24	Organizational, Direct Support and General Support Maintenance Manual for Mast Erection Group OA-9502(V) 1/GLQ & (V) 2/GLQ.

Reference	Title
TM 11-7021-201-12-1	Operator's and Maintenance Manual for Computer, Digital AN/UYK-19B.
TM 11-7035-202-12	Operator's and Maintenance Manual for Display Set AN/UYQ-10.
TM 32-5835-005-14&P	Operator's, Organizational, Direct Support and General Support Maintenance Manual Including Repair Parts and Special Tools List for Recorder, Reproducer Set Sound AN/UNH-17A.
TM 32-5865-060-10	Operator's Manual for Countermeasures Set, Special Purpose, AN/MLQ-34.
TM 32-5865-061-24&P	Organizational, Direct Support and General Support Maintenance Manual Including Repair Parts and Special Tools Lists for Receiver Set R-2197/MLQ-34.
TM 32-5865-062-24&P	Organizational, Direct Support and General Support Maintenance Manual Including Repair Parts and Special Tools Lists for Heat Exchanger HD-1089/MLQ-34.
TM 32-5865-063-24&P	Organizational, Direct Support and General Support Maintenance Manual Including Repair Parts and Special Tools Lists for Control-Display, Receiver C-10935/MLQ-34.
TM 32-5865-064-24&P	Organizational, Direct Support and General Support Maintenance Manual Including Repair Parts and Special Tools Lists for Positioner, Antenna TG-252/MLQ-34.
TM 32-5865-065-24&P	Organizational, Direct Support and General Support Maintenance Manual Including Repair Parts and Special Tools Lists for Controller, Data Link C-11000/MLQ-34.
TM 32-5865-066-24&P	Organizational, Direct Support and General Support Maintenance Manual Including Repair Parts and Special Tools Lists for Control-Indicator C-10965/MLQ-34.
TM 32-5865-067-24&P	Organizational, Direct Support and General Support Maintenance Manual Including Repair Parts and Speical Tools Lists for Control, Signal Interface C-11011/MLQ-34.

Reference	Title
TM 32-5865-068-24&P	Organizational, Direct Support and General Support Maintenance Manual Including Repair Parts and Special Tools List for Modem, Data Link MD-1115/MLQ-34.
TM 32-5865-069-24&P	Organizational, Direct Support and General Support Maintenance Manual Including Repair Parts and Special Tools Lists for Processor, Signal Data MX-10214/MLQ-34.
TM 32-5865-070-24&P	Organizational, Direct Support and General Support Maintenance Manual Including Repair Parts and Special Tools Lists for Control, Radio Frequency C-10966/MLQ-34.
TM 32-5865-071-24&P	Organizational, Direct and General Support Maintenance Manual Including Repair Parts and Special Tools Lists for Switching Unit, Automatic Mode SA-2334/MLQ-34.
TM 32-5865-072-24&P	Organizational, Direct and General Support Maintenance Manual Including Repair Parts and Special Tools Lists for Control, Amplifier C-10967/MLQ-34.
TM 32-5865-073-24&P	Organizational, Direct and General Support Maintenance Manual Including Repair Parts and Special Tools Lists for Transmitter, Countermeasures T-1439/MLQ-34.
TM 32-5865-074-24&P	Organizational, Direct and General Support Maintenance Manual Including Repair Parts and Special and Special Tools Lists for Exciter O-1801/MLQ-34.
TM 32-5985-001-24&P	Organizational, Direct and General Support Maintenance Manual Including Repair Parts and Special Tools List for Antenna, AS-3500/G.
TM 38-750	The Army Maintenance Management System.
TM 43-0118	Field Instructions for Painting and Preserving Electronics Command Equipment Including Camouflage Pattern Painting of Electronic Equipment Shelters.

Reference	Title
TM 740-90-1	Administration Storage.
TM 750-244-2	Procedures for Destruction of Army Materiel to Prevent Enemy Use (Electronics Command).
MIL-HDBK-216	RF Transmission Lines and Fittings.
NAVTORPSTA REPORT 1347	Guide Manual for Repair of Electronic Modules.

APPENDIX B

MAINTENANCE ALLOCATION CHART

COUNTERMEASURES SET
SPECIAL PURPOSE - AN/MLQ-34
(5051430-1)

Section I. INTRODUCTION

B-1. GENERAL

a. This section provides a general explanation of all maintenance and repair functions authorized at various maintenance categories.

b. The Maintenance Allocation Chart (MAC) in section II designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of the maintenance functions to the end item or component will be consistent with the capacities and capabilities of the designated maintenance categories.

c. Section III lists the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from section II.

d. Section IV contains supplemental instructions and explanatory notes for a particular maintenance function.

B-2. MAINTENANCE FUNCTIONS. Maintenance functions will be limited to and defined as follows:

a. Inspect. To determine the serviceability of an item by comparing its physical, mechanical and/or electrical characteristics with established standards through examination (e.g., by sight, sound, or feel).

b. Test. To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards.

c. Service. Operations required periodically to keep an item in proper operating condition, i.e., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases.

d. Adjust. To maintain or regulate, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteritics to specified parameters.

e. Align. To adjust specified variable elements of an item to bring about optimum or desired performance.

f. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test measuring and diagnostic equipment used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

g. Remove/Install. To remove and install the same item when required to perform service or other maintenance functions. Install, may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

h. Replace. To remove an unserviceable item and install a serviceable counterpart in its place. Replace is authorized by the MAC and is shown as the third position code of the SM&R code.

i. Repair. The application of maintenance services[1], including fault location/troubleshooting[2], removal/installation, and disassembly/assembly[3], procedures, and maintenance actions[4], to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction or failure in a part, subassembly, module (component or assembly), end item, or system.

j. Overhaul. That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications (i.e., DMWR). Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

k. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of material maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours/miles, etc) considered in classifying Army equipments/components.

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[1] Services - inspect, test, service, adjust, align, calibrate, and/or replace.

[2] Fault locate/troubleshoot - The process of investigating and detecting the cause of equipment malfunctioning; the act of isolating a fault within a system or unit under test (UUT).

[3] Disassemble/assemble - encompasses the step-by-step taking apart (or breakdown) of a spare/functional group coded item to the level of its least componency identified as maintenance significant (i.e., assigned an SMR code) for the category of maintenance under consideration.

[4] Actions - welding, grinding, riveting, straightening, facing, remachinery, and/or resurfacing.

B-3. EXPLANATION OF COLUMNS IN THE MAC, SECTION II.

a. Column 1, Group Number. Column 1 lists functional group code numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the next higher assembly. End item group number shall be "00".

b. Column 2, Component/Assembly. Column 2 contains the names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

c. Column 3, Maintenance Function. Column 3 lists the functions to be performed on the item listed in column 2. (For detailed explanation of these functions, see paragraph B-2.)

d. Column 4, Maintenance Level. Column 4 specifies, by the listing of a work time figure in the appropriate sub-column(s), the category of maintenance authorized to perform the function listed in column 3. This figure represents the active time required to perform that maintenance function at the indicated category of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance categories, appropriate work time figures will be shown for each category. The work time figure represents the average time required to restore an item (assembly, subassembly component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time (including any necessary disassembly/assembly time), troubleshooting/fault location time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. The symbol designations for the various maintenance levels are as follows:

C	Operator or crew
O	Organizational maintenance
F	Direct support maintenance
H	General support maintenance
D	Depot maintenance

e. Column 5, Tools and Equipment. Column 5 specifies, by code, those common tool sets (not individual tools) and special tools, TMDE, and support equipment required to perform the designated function.

f. Column 6. Remarks. This column shall, when applicable, contain a letter code, in alphabetic order, which shall be keyed to the remarks contained in Section IV.

B-4. EXPLANATION OF COLUMNS IN TOOL AND TEST EQUIPMENT REQUIREMENTS, SECTION III.

a. Column 1. Reference Code. The tool and test equipment reference code correlates with a code used in the MAC, Section II, Column 5.

b. Column 2. Maintenance Level. The lowest level of maintenance authorized to use the tool or test equipment.

c. Column 3. Nomenclature. Name or identification of the tool or test equipment.

d. Column 4. National Stock Number. The National stock number of the tool or TMDE.

e. Column 5. Tool Part Number. The manufacturer's part number.

B-5. EXPLANATION OF COLUMNS IN REMARKS, SECTION IV.

a. Reference Code. The code recorded in column 6, section II.

b. Remarks. This column lists information pertinent to the maintenance function being performed as indicated in the MAC, section II.

SECTION II. MAINTENANCE ALLOCATION CHART

Countermeasures Set
Special Purpose-AN/MLQ-34
(5051430-1)

GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY C	O	F	H	D	TOOLS AND EQUIP.	REMARKS
00	Countermeasures Set Special Purpose 5051430-1	Inspect		0.2				2	
		Inspect			0.3			1-3	
		Test		0.3					A,B
		Test			8.0			1-3,5, 15, 20-27, 36	A,B
		Service		0.4				2	C,D, F
		Adjust			0.5			1,5	
		Repair		2.0				2,37, 38	L
		Repair			6.0			1-3,5, 11-17, 20-24, 28,29, 33, 36-38	
		Repair				4.0		1-3,5, 11-18, 29-32, 37-38	
		Overhaul					X		H-1

SECTION II. MAINTENANCE ALLOCATION CHART
Countermeasures Set
Special Purpose-AN/MLQ-34
(5051430-1)

GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY C	O	F	H	D	TOOLS AND EQUIP.	REMARKS
01	Shelter, Electrical Equipment Group	Remove/ Install			2.0			1,3,6,8,10,17	
		Replace			1.0			1,3,6,8,10,17	
0101	Computer And Control Functional Group								
010101	Data Processing Set A6 5053100-1	Inspect		0.1				2	
		Replace		0.5				2	
		Repair							M-18
01010101	Data Processing Set AN/UYK-19B	Inspect		0.1				2	
		Replace		0.5				2	H-2
		Repair							M-18
010102	Display Set A31 5051580-1	Inspect		0.2				2	
		Remove/ Install		2.0				2,17	
		Replace		1.0				2,17	
		Repair			1.0			1,5	
01010201	Display Set AN/UYQ-10	Inspect		0.2				2	H-3
		Replace		0.1				2,17	M-30
		Repair					X		H-3

SECTION II. MAINTENANCE ALLOCATION CHART

Countermeasures Set
Special Purpose-AN/MLQ-34
(5051430-1)

GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY					TOOLS AND EQUIP.	REMARKS
			C	O	F	H	D		
01010202	Keyboard, Display	Inspect		0.2				2	
	A34	Replace		1.0				2,17	
	5053498-1	Repair							M-30
010103	Control, Indicator	Inspect		0.1				2	
	A32	Replace		0.1				2	
	C-10965/MLQ-34	Repair							M-31
	5051600-1								
010104	Controller, Data	Inspect		0.1				2	
	Link	Replace		0.1				2	
	A24	Repair							M-27
	C-11000/MLQ-34								
	5051660-1								
010105	Termination	Inspect		0.1					
	Assembly	Inspect			0.1			1	
	RC Bus	Test		0.2				2,5	
	A19	Test			0.2			1,5	
	5053244-1	Replace		0.2				2,17	
		Repair			0.5			1,5,33	
0102	Data Link								
	Functional Group								
010201	Antenna, Data Link	Inspect			0.1			1	
	AS-3509/MLQ-34	Replace			0.2			1	
	5051460-1								

SECTION II. MAINTENANCE ALLOCATION CHART

Countermeasures Set
Special Purpose-AN/MLQ-34
(5051430-1)

GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY					TOOLS AND EQUIP.	REMARKS
			C	O	F	H	D		
010202	Interconnecting Box W/ARC-164 MTG Base (ARC-164 Data Link) A22 5051837-1	Inspect		0.1				2	
		Inspect			0.1			1	
		Test			0.2			1,5	
		Remove/Install		1.0				2,17,29	
		Replace		1.0				2,17,29	
		Repair			0.5			1,5,20,36	
01020201	Interconnecting Box Data Link A22A2 5052249-1	Inspect			0.1			1	
		Test			0.2			1,5	
		Replace			0.5			1,5,11,17	
		Repair			0.4			1,11-13	
010203	Receiver-Transmitter A1,A2 RT-1167/ARC164	Inspect		0.1				2	
		Replace		1.0				2	
		Repair							M-13
010204	Encoder-Decoder A5	Inspect		0.1				2	
		Replace		0.5				2	
		Repair							M-17
010205	Modem, Data Link A4 MD-1115/MLQ-34 5052240-1	Inspect		0.1				2	
		Replace		0.2				2	
		Repair							M-16

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Countermeasures Set
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GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY					TOOLS AND EQUIP.	REMARKS
			C	O	F	H	D		
010206	Power Supply (ARC-164) A20 5055510-1	Inspect		0.1				2	
		Inspect				0.1		1	
		Remove/ Install		1.0				2	
		Replace		1.0				2	
		Repair		0.5				2	
		Repair				0.5		1	
01020601	Power Supply 5053275-1	Inspect				0.1		1	
		Test				0.2		1,5	
		Adjust				0.2		1,5	
		Replace				0.5		1,5, 11,17,	
		Repair				0.4		1,5,11	
010206-0101	Power Supply PS1 0213-2-1196-12	Inspect				0.1		1	
		Repair					X		E
0103	JAMMER Functional Group								
010301	Transmitter, Countermeasure A35-A37 T-1439/MLQ-34 5051520-1	Inspect			0.5			1	
		Inspect				0.8		1	
		Replace				4.0		1,5, 28-32	G
		Repair							M-35
		Repair							K, M-35

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GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY C	O	F	H	D	TOOLS AND EQUIP	REMARKS
010302	Control, Amplifier	Inspect			0.1			1	
	A12-A14	Adjust			0.2			1,5	
	C-10967/MLQ-34	Remove/			2.0			1,5	
	5051550-1	Install							
		Replace			1.0			1	
		Repair							M-21
010303	Exciter	Inspect			0.1			1	
	A15-A17	Remove/			2.0			1,5	
	O-1801/MLQ-34	Install							
	5051560-1	Replace			1.0			1	
		Repair							M-22
010304	Combiner, Mode	Inspect		0.1				2	
	Coupler	Replace		0.2				2	
	CM-489/MLQ-34								
	5054808-1								
010305	Switching Unit,	Inspect		0.2				2	
	Automatic Mode	Replace		0.3				2	
	A10	Repair							M-20
	SA-2334/MLQ-34								
	5051530-1								
010306	Dummy Load, Elec	Inspect			0.1			1	
	AT1, AT2	Replace			1.0			1	
	5054878-1								

SECTION II. MAINTENANCE ALLOCATION CHART

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GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY					TOOLS AND EQUIP	REMARKS
			C	O	F	H	D		
010307	Heat Exchanger HD-1089/MLQ-34 5052230-1	Inspect			0.2			1	
		Remove/ Install			6.0			1,3,7, 8	
		Replace			6.0			1,3,7, 8	
		Repair							M-12
0104	Receiving And Display Functional Group								
010401	Receiver Set A25 R-2197/MLQ-34 5051640-1	Inspect			0.1			1	
		Remove/ Install			1.0			1,17	
		Replace			0.5			1,17	
		Repair							M-28
010402	Receiver, Digital Tuned A25A1 Through A25A4 ESR-801B	Inspect		0.1				2	
		Remove/ Install		0.3				2	
		Replace		0.3				2	
		Repair							M-37
010403	Processor, Signal Data A23 MX-10214/MLQ-34 5051650-1	Inspect			0.2			1	
		Remove/ Install			0.8			1	
		Replace			0.4			1	
		Repair							M-26

SECTION II. MAINTENANCE ALLOCATION CHART

Countermeasures Set
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GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY					TOOLS AND EQUIP.	REMARKS
			C	O	F	H	D		
010404	Control, Display	Inspect		0.1				2	
	A33	Replace		0.1				2	
	C-10935/MLQ-34	Repair							M-32
	5051610-1								
010405	Control, Signal	Inspect			0.2			1	
	Interface	Replace			0.2			1	
	A20	Repair							M-23
	C-11001/MLQ-34								
	5051620-1								
010406	Control Unit,	Inspect			0.1			1	
	Radio Frequency	Replace			0.3			1	
	A21	Repair							M-24
	C-10966/MLQ-34								
	5051630-1								
010407	Recorder-Reproducer	Inspect		0.3				2	
	A22	Remove/ Install		1.0				2	
	AN/UNH-17A 5835-01-023-4332	Replace		0.5				2	
		Repair							M-25
010408	Headset-Microphone	Inspect		0.1					
	HS2	Replace		0.2					
	5054693-1								
0105	Voice Communications Functional Group								

SECTION II. MAINTENANCE ALLOCATION CHART

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GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY					TOOLS AND EQUIP	REMARKS
			C	O	F	H	D		
010501	Radio Set	Inspect		0.1				2	
	A30	Replace		0.5				2	
	RT-524/VRC-46	Repair							M-29
	5820-00-892-0622								
010502	Mount, Radio Set	Inspect		0.1				2	
	MT-1029/VRC-46	Replace		0.5				2	
	5820-00-893-1323	Repair							M-19
010503	Antenna	Inspect		0.1				2	
	AS-1729/VRC-46	Replace							M-38
	5985-00-985-0924	Repair							M-11
010504	Control,Intercom	Inspect		0.1				2	
	A15	Replace		1.0				2	
	C2298/VRC-46	Repair							M-7
010505	Loudspeaker, PM	Inspect		0.2					
	LS1	Replace		0.5				2	
	LS454/U	Repair							M-8
	5965-876-2375								
010506	Handset	Inspect		0.1					
	HS1	Replace		0.5				2	
	H-189/U	Repair							M-34
	5965-00-069-8886								

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GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY					TOOLS AND EQUIP.	REMARKS
			C	O	F	H	D		
010507	Filter, Receiver Set A18 5055567-1	Inspect			0.1			1	
		Test			0.2			1,5, 21-23	
		Replace			0.2			1,17	
		Repair			0.5			1	
01050701	Control, Voice Filter A18A1 5055275-1	Inspect			0.1			1	
		Replace			0.2			1	
		Repair			0.3			1	
01050702	Filter, Band Pass A18FL1 5054525-1	Inspect			0.1			1	
		Replace			0.3			1	
		Repair			0.3			1	
010508	Encoder-Decoder A3	Inspect		0.2				2	
		Replace		0.5				2	
		Repair							M-14
010509	Power Supply PS1	Inspect		0.1				2	
		Replace		0.3				2	
		Repair							M-15
010510	Interconnect Box A38 J-3513/U	Inspect		0.1				2	
		Replace		0.5				2	
		Repair							M-33
0106	Antenna Functional Group								

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GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY C	O	F	H	D	TOOLS AND EQUIP.	REMARKS
010601	Antenna, Log Periodic AS-3500/G 5052250-1	Inspect			0.2				
		Replace			1.0			1	
		Repair							M-10
010602	Positioner, Antenna TG-252/MLQ-34 5052260-1	Inspect			0.2				
		Replace			2.0			1,13	
		Repair							M-9
010603	Mast, 37 Foot AB-1292/G 5035601-1	Inspect			0.1				
		Replace			1.5			1,6, 8-10	
		Repair							J,M-3
010604	Control, Air Compressor A17 5055541-1	Inspect		0.2					
		Inspect			0.2				
		Test			1.0			1,5,2, 34,35	
		Replace		0.1					
		Repair			0.5			1,5, 12,34, 35	
010605	Pneumatic Component Assy A8 MX-10204/G 5035394-2	Inspect			0.1			1,3,4	
		Replace			0.5			3	
		Repair							M-4

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GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY					TOOLS AND EQUIP.	REMARKS
			C	O	F	H	D		
010606	Tank, Pressure	Inspect			0.1			1,3	
	5035807-5	Replace			0.5			3	
		Repair							M-5
010607	Control, Mast	Inspect		0.3					
	A16	Inspect			0.3			1	
	5051727-1	Test			0.3			1,5	
		Replace		1.0				2	
		Repair			1.0			1,5, 11,12, 17	
010608	Support, Antenna	Inspect			0.1			1	
	(FWD)	Test			0.2			1,5	
	A16	Adjust			0.3			1	
	5055274-1	Replace			0.5			1	
		Repair			0.2			1	
010609	Shroud, Antenna	Inspect			0.1			1	
	A6	Replace			0.3			1	
	5051590-1	Repair			0.5			1	
010610	Mast, Data Link	Inspect		0.1				2	
	AB-1289/MLQ-34	Test		0.2				2	
	5052270-1	Replace		2.5				2	
010611	Antenna (Bite)	Inspect		0.1					
	E1	Replace		0.3				2	
	AS-3510/MLQ-34								
	5051519-1								

SECTION II. MAINTENANCE ALLOCATION CHART

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GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY C	O	F	H	D	TOOLS AND EQUIP.	REMARKS
010612	Filter Assy A13 5052377-1	Inspect			0.1			1	
		Test			0.2			1,5	
		Replace			0.8			1,3	
		Repair			1.0			1,5, 11	
010613	Panel, Patch, Antenna A18 5053258-1	Inspect		0.1					
		Inspect			0.2			1	
		Test		0.2					
		Test			0.2			1,5	
		Remove/ Install		0.2				2	
		Replace		0.2				2	
		Repair			0.2			1,5, 11-13, 17	
0107	Power Generator And Distribution Functional Group								
010701	Distribution Box, AC A26 5053274-1	Inspect			0.1			1	
		Test			0.1			1,5	
		Replace			0.2			1,17	
		Repair			0.3			1,5, 11-13, 17	

SECTION II. MAINTENANCE ALLOCATION CHART
Countermeasures Set
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(5051430-1)

GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY					TOOLS AND EQUIP.	REMARKS
			C	O	F	H	D		
010702	Filter, RFI	Inspect			0.1			1	
	FL1, FL2	Test			0.2			1,5	
	5052345-1	Remove/ Install			0.5			1,17, 19	
		Replace			0.5			1,17, 19	
010703	Distribution Box	Inspect			0.1			1	
	A8	Test			0.2			1,3,5	
	5053277-3	Replace			0.2			1,3,5, 17	
		Repair			0.3			1,3,5, 12,17	
010704	Distribution Box	Inspect			0.1			1	
	A9	Test			0.2			1,3,5	
	5053277-1	Replace			0.2			1,3,5, 17	
		Repair			0.3			1,3,5, 12,17	
010705	Distribution Box	Inspect			0.1			1	
	A19	Test			0.2			1,3,5	
	5053277-2	Replace			0.2			1,3,5, 17	
		Repair			0.3			1,3,5, 12,17	

SECTION II MAINTENANCE ALLOCATION CHART

Countermeasures Set
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GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY					TOOLS AND EQUIP	REMARKS
			C	O	F	H	D		
0108	Shelter Functional Group								
010801	Shelter, Electrical Equipment A5 S-595/G 5051511-1	Inspect Repair		1.0				2	 M-2
010802	Rack, Electrical Equipment (Ampl-Cont) MP1 MT-6210/MLQ-34 5051473-1	Inspect Replace Repair Repair			0.3 1.0 	 1.5 1.0		1 3,38 1 1,3,19	
010803	Rack, Electrical Equipment (RCVR) MP2 MT-6211/MLQ-34 5051492-1	Inspect Replace Repair Repair			0.3 1.0 	 1.5 1.0		1 3,38 1,3,19	
010804	Rack, Electrical Equipment (Control) MP3 MT-6212/MLQ-34	Inspect Replace Repair Repair			0.3 1.0 	 1.5 1.0		1 3,38 1 1,3,19	

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GROUP NUMBER	COMPONENT/ASSEMBLY	MAINTENANCE FUNCTION	MAINTENANCE CATEGORY					TOOLS AND EQUIP	REMARKS
			C	O	F	H	D		
010805	Rack, Electrical Equipment (XMTR) MP4 MT-6213/MLQ-34 5051501-1	Inspect			0.3			1	
		Replace				1.5		3,38	
		Repair			0.5			1,3,19	
		Repair				1.0		1,3,19	
		Repair					X		H-1
010806	Air Conditioner A11 F36T4-2S 5052290-1	Inspect		0.1				2	
		Test		0.2					
		Remove/ Install						2,3,17	M-6
		Replace						2,3,17	M-6
		Repair					X		
010807	Terminal Box A14 5052416-1	Inspect			0.1			1	
		Test			0.2			1,5	
		Replace			0.2			1	
		Repair			0.2			1,5	
02	Vehicle Functional Group								
0201	Carrier, Electrical Equipment Group (Common) 5051440-1	Inspect							M-36
		Replace							M-36
0202	Support, Heat Exchanger 5055551-1	Inspect		0.5				1-3	M-36
		Repair		1.0				1-3	M-36
		Replace		1.0				1-3,38	M-36

SECTION III. TOOL AND TEST EQUIPMENT REQUIREMENTS

Countermeasures Set
Special Purpose - AN/MLQ-34
(5051430-1)

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE CATEGORY	NOMENCLATURE	NATIONAL/NATO STOCK NUMBER	TOOL NUMBER
1	OFHD	Tool, Kit, Elec Equip	5180-00-605-0079	TK-100/G
2	OFHD	Tool, Kit, Elec Equip	5180-00-610-8177	TK-105/G
3	FHD	Tool, Kit Gen. Mechanics	5180-00-209-6225	
4	FHD	Tool Kit, Service Refrigeration Unit	5180-00-596-1474	
5	FHD	Multimeter Set	6625-00-969-4105	ME-303A/U
6	FHD	Sling, Hoist	3940-00-291-8728	
7	FHD	Sling, Web		EN1-801D Lift All FSCM23755
8	FHD	Truck, Wrecker 5 Ton M816	2320-00-051-0489	
9	FHD	Socket 1 3/16", 1/2" Sq Drive	5120-00-293-0093	
10	FHD	Strap Wrench Shackle Type O.D. Capacity 2" to 12"		5349A14 McMaster-Carr FSCM 39428
11	FHD	Connector Pin Insertion/ Removal Tool Pin Size 20	5120-00-915-4587	MS27534-20
12	FHD	Connector Pin Insertion/ Removal Tool Pin Size 16	5120-01-075-3111	MS27534-16
13	FHD	Connector Pin Insertion/ Removal Tool Pin Size 12	5120-00-116-2821	MS27534A12
14	FHD	Connector Pin Insertion/ Removal Tool Pin Size 8	5120-00-133-0168	Daniels DRK 56-8 FSCM 11851
15	FHD	Crimping Tool, Terminal, Hand, Size 14 through 8 wire	5120-00-596-9311	

SECTION III. TOOL AND TEST EQUIPMENT REQUIREMENTS

Countermeasures Set
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(5051430-1)

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE CATEGORY	NOMENCLATURE	NATIONAL/NATO STOCK NUMBER	TOOL NUMBER
16	FHD	Crimping Tool, Terminal, Hand, Size 22 through 14 wire	5120-00-224-9409	
17	OFHD	Pliers, Electrical Conn	5120-00-624-8065	
18	FHD	Wrench Open End Adjustable 2 1/2" Size 24	5120-00-449-8084	
19	FHD	Extractor Set, Screw	5120-00-595-8279	
20	FHD	Oscilloscope	6625-01-106-9622	AN/USM281C
21	FHD	Signal Generator	6625-00-566-3067	SG-1112(V)1/U
22	FHD	Power Meter	6625-01-033-5050	TS-3793/U (HP436A)
23	FHD	Power Sensor	6625-00-354-9762	HP8481A
24	FHD	Power Sensor	6626-01-014-6695	HP8481H
25	FHD	Directional Coupler, 20 dB	5985-00-492-7921	
26	FHD	Directional Coupler, 40 dB	4931-01-018-6736	MAURY 4098A OPT11 FSCM 13047
27	FHD	Attenuator, 30 dB, 2 kW	5985-00-110-0381	Bird Model 8329 FSCM 70998
28	FHD	Wrench, Torque, 0-150 in lbs	5120-00-230-6380	
29	OFHD	Wrench, Torque, 5-50 in lbs	5120-00-902-9436	
30	HD	Lifting Aid, Transmitter		98-1274861 GTE FSCM 57958

SECTION III. TOOL AND TEST EQUIPMENT REQUIREMENTS

Countermeasures Set
Special Purpose - AN/MLQ-34
(5051430-1)

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE CATEGORY	NOMENCLATURE	NATIONAL/NATO STOCK NUMBER	TOOL NUMBER
31	HD	Dolley, Transmitter (2)		98-1274865 GTE FSCM 57958
32	FHD	Truck, Fork Lift	3930-00-088-8934	Hyster H100CAF48 FSCM 30076
33	FHD	Heat Gun	4940-00-364-2828	Masters HG 501 FSCM 83284
34	OFHD	Rotary Torque Drive		Mountz Ltd 50 RTD-1 FSCM 32652
35	OFHD	Insert Bit, Phillips, No. 2		Mountz Ltd 000-P2 FSCM 32652
36	FHD	Probe, RF	6625-00-400-2475	TEK P6009 FSCM 80009
37	OFHD	Wrench, Torque, 7-10 in lbs Preset	5120-00-169-5776	Omni-Spectra T8438 FSCM16179
38	OFHD	Wrench, Torque, 10-150 Ft Lbs	5120-00-542-3055	

SECTION IV. REMARKS

Countermeasures Set
Special Purpose - AN/MLQ-34
(5051430-1)

REFERENCE CODE	REMARKS
A	Test is performed by System BITE.
B	Test is performed by LRU/System BITE.
C	Clean Filter Element every 30 days, minimum.
D	Remove and clean air filter elements every 30, days minimum.
E	Return to Vendor for repair per USAEMRA Supply Bulletin, Subject: Electronic items Depot/Contract Repair Support
F	Lubrication is required as necessary on the following: 1. Mast, 37 foot.
G	Use of Transmitter Dolly P/N 98-1274865, Transmitter Lifting Aid P/N 98-1274861 and a Fork Lift are required to remove Transmitter Assemblies prior to removal of Transmitter rack MP4.
H	Refer to DMWR's For Depot Level Functions: 1. 5051430-1 Countermeasures Set, Special Purpose DMWR 32-5865-060 2. 5053100-1 Data Processing Set, UYK-19B DMWR 11-7021-201 3. 5051530-1 Display Set, AN/UYQ-10 DMWR 11-7035-202
J	The 37 foot Mast P/N 5035801-1 Serial No's 001-80 thru 020-80 do not have Interchangeable Sections with Serial No's 021-80 thru 023-80.
K	Major repairs on the Cold Plate Assemblies and Chassis Electrical Equipment (Rear) are Depot Level functions.
L	Front panel component repair only.
M	Refer to Equipment Level Manuals for complete repair functions: 1. 5051430-1 Countermeasures Set, Special Purpose AN/MLQ-34 TM 32-5865-060-24&P-1,-2

SECTION IV. REMARKS

Countermeasures Set
Special Purpose - AN/MLQ-34
(5051430-1)

REFERENCE CODE	REMARKS			
M Cont'd	2.	5051511-1	Shelter, Electrical Equipment S-595/G	TM 32-5410-002-24&P
	3.	5035601-1	Mast, (37 foot)	TM 11-5985-365-24
	4.	5035394-2	Pneumatic Component Assy	TM 11-5985-365-24
	5.	5035807-5	Tank, Pressure	TM 11-5985-365-24
	6.	F36T4-2S	Air Conditioner	TM 5-4120-370-14 & -24P
	7.	C2298/ VRC-46	Control, Intercom	TM 11-5820-401-35-8
	8.	LS454/U	Loudspeaker, PM	TM 11-5965-255-15P
	9.	5052260-1	Positioner, Antenna	TM 32-5865-064-24&P
	10.	5052250-1	Antenna, Log Periodic	TM 32-5985-001-24&P
	11.	AS1729/ VRC-46	Antenna	TM 11-5985-262-15
	12.	5052230-1	Heat Exchanger	TM 32-5865-062-24&P
	13.	RT1167/ ARC-164(V)	Receiver-Transmitter	TM 11-5821-311-34
	14.		Encoder-Decoder	TM 11-5810-312-12 & -34&P
	15.		Power Supply	TM KAM-340A
	16.	5052240-1	Modem, Data Link	TM 32-5865-068-24&P
	17.		Encoder-Decoder	TM CSESD-3G
	18.	5053100-1	Data Processing Set AN/UYK-19B	TM 11-7021-201-12-1
	19.	MT-1029/ VRC-46	Mount, Radio Set	TM 11-5820-401-12
	20.	5051530-1	Switching Unit, Automatic Mode	TM 32-5865-071-24&P
	21.	5051550-1	Control, Amplifier	TM 32-5865-072-24&P
	22.	5051560-1	Exciter	TM 32-5865-074-24&P

SECTION IV. REMARKS

Countermeasures Set
Special Purpose - AN/MLQ-34
(5051430-1)

REFERENCE CODE	REMARKS			
M Cont'd	23.	5051620-1	Control, Signal Interface	TM 32-5865-067-24&P
	24.	5051630-1	Control Unit, Radio Frequency	TM 32-5865-070-24&P
	25.	AN/UNH-17A	Recorder-Reproducer Set	TM 32-5835-005-14&P
	26.	5051650-1	Processor, Sig Data	TM 32-5865-069-24&P
	27.	5051660-1	Controller, Data Link	TM 32-5865-065-24&P
	28.	5051640-1	Receiver Set	TM 32-5865-061-24&P
	29.	RT524/ VRC-46	Radio Set	TM 11-5820-401-34-2
	30.	5051580-1	Display Set AN/UYQ-10	TM 11-7035-202-12,-30,-40
	31.	5051600-1	Control, Indicator	TM 32-5865-066-24&P
	32.	5051610-1	Control, Display	TM 32-5865-063-24&P
	33.	J-3513/U	Interconnect Box	TM 11-5810-312-34&P
	34.	H189/U	Headset	TM 11-5965-280-15
	35.	5051520-1	Transmitter, Countermeasures	TM 32-5865-073-24&P
	36.	5051440-1	Carrier, Electrical Equipment	TM 9-2350-247-20
	37.	ESR-801B	Receiver, Digital Tuned	NAVAIR FWD 80-3588
	38.	AS-1729/ VRC-46	Antenna	TM 11-5820-401-12

APPENDIX C

ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

C-1. **SCOPE.** This manual lists spares and repair parts, special tools; special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of organizational, direct support, and general support maintenance of the Countermeasures Set, Special Purpose AN/MLQ-34. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

C-2. **GENERAL.** This Repair Parts and Special Tools List is divided into the following sections:

a. Section II. Repair Parts List. A list of spares and repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in numeric sequence, with the parts in each group listed in figure and item number sequence. Bulk materials are listed in NSN sequence.

b. Section III. Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized for the performance of maintenance.

c. Section IV. National Stock Number and Part Number Index. A list, in National item identification number (NIIN) sequence, of all National stock numbers (NSN) appearing in the listings, followed by a list in alphameric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance. This index is followed by a cross-reference list of reference designators to figure and item numbers.

C-3. **EXPLANATION OF COLUMNS.**

a. Illustration. This column is divided as follows:

(1) Figure Number. Indicates the figure number of the illustration on which the item is shown.

(2) Item Number. The number used to identify item called out in the illustration.

b. Source, Maintenance, and Recoverability (SMR) Codes.

(1) Source Code. Source codes indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

Code	Definition
PA	Item procured and stocked for anticipated or known usage.
PD	Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings. Not subject to automatic replenishment.
PE	Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities.
MF	Item to be manufactured or fabricated at the direct support maintenance level.
XA	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
XB	Item is not procured or stocked. If not available through salvage, requisition.
XC	Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.

NOTE

Cannibalization or salvage may be used as a source of supply for any items coded above except those coded XA and aircraft support items as restricted by AR 700-42.

(2) Maintenance Code. Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

(a) The maintenance code entered on the third position will indicate the lowest maintenance level authorized to remove, replace and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance:

Code	Application/Explanation
O	Support item is removed, replaced, used at the organizational level.
F	Support item is removed, replaced, used at the direct support level.
H	Support item is removed, replaced, used at the general support level.
D	Support items that are removed, replaced, used at depot, mobile depot, or specialized repair activity only.

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes.

Code	Application/Explanation
O	The lowest maintenance level capable of complete repair of the support item is the organizational level.
F	The lowest maintenance level capable of complete repair of the support item is the direct support level.
H	The lowest maintenance level capable of complete repair of the support item is the general support level.
D	The lowest maintenance level capable of complete repair of the support item is the depot level.
Z	Nonreparable. No repair is authorized.

(3) Recoverability Code. Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

Recoverability Codes	Definition
Z	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
O	Reparable item. When uneconomically reparable, condemn and dispose at organizational level.
F	Reparable item. When uneconomically reparable, condemn and dispose at the direct support level.
H	Reparable item. When uneconomically reparable, condemn and dispose at the general support level.
D	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.

c. National Stock Number. Indicates the national stock number assigned to the item and which will be used for requisitioning.

d. Part Number. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When a stock numbered item is requisitioned, the item received may have a different part number than the part being replaced.

e. Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item. The physical security classification of the item is indicated by the parenthetical entry. Items that are included in kits and sets are listed below the name of the kit or set with the quantity of each item in the kit or set indicated in the quantity incorporated in unit column. When the part to be used differs between serial numbers of the same model, the effective serial numbers are shown as the last line of the description. When density of equipments supported exceeds density spread indicated in the basis of issue, the total authorization is increased accordingly.

g. Unit of Measure (U/M). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr, etc). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

h. Quantity Incorporated in Unit. Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that no specific quantity is applicable, (e.g., shims, spacers, etc).

C-4. SPECIAL INFORMATION.

a. A square symbol on the components of a CCA denotes the positive end.

b. Action Change codes indicates in the left-hand margin of the listing page denote the following:

N-Indicates an added item.

C-Indicates a change in data.

R-Indicates a change in NSN only.

C-5. HOW TO LOCATE REPAIR PARTS.

a. When National Stock Number or Part Number is Unknown:

(1) First. Using the table of contents, determine the functional group or subgroup within which the item belongs. This is necessary since illustrations are prepared for functional groups or subgroups, and listings are divided into the same groups.

(2) Second. Find the illustration covering functional group or subgroup to which the item belongs.

(3) Third. Identify the items on the illustration and note the illustration figure and item number of the item.

(4) Fourth. Using the Repair Parts Listing, find the figure and item numbers noted on the illustration.

b. When National Stock Number or Part Number is Known:

(1) First. Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in NIIN sequence followed by a list of part numbers in alphameric sequence, cross-referenced to the illustration figure number and item number.

(2) Second. After finding the figure and item number, locate the figure and item number in the repair parts list.

C-6. ABBREVIATIONS. Not applicable.

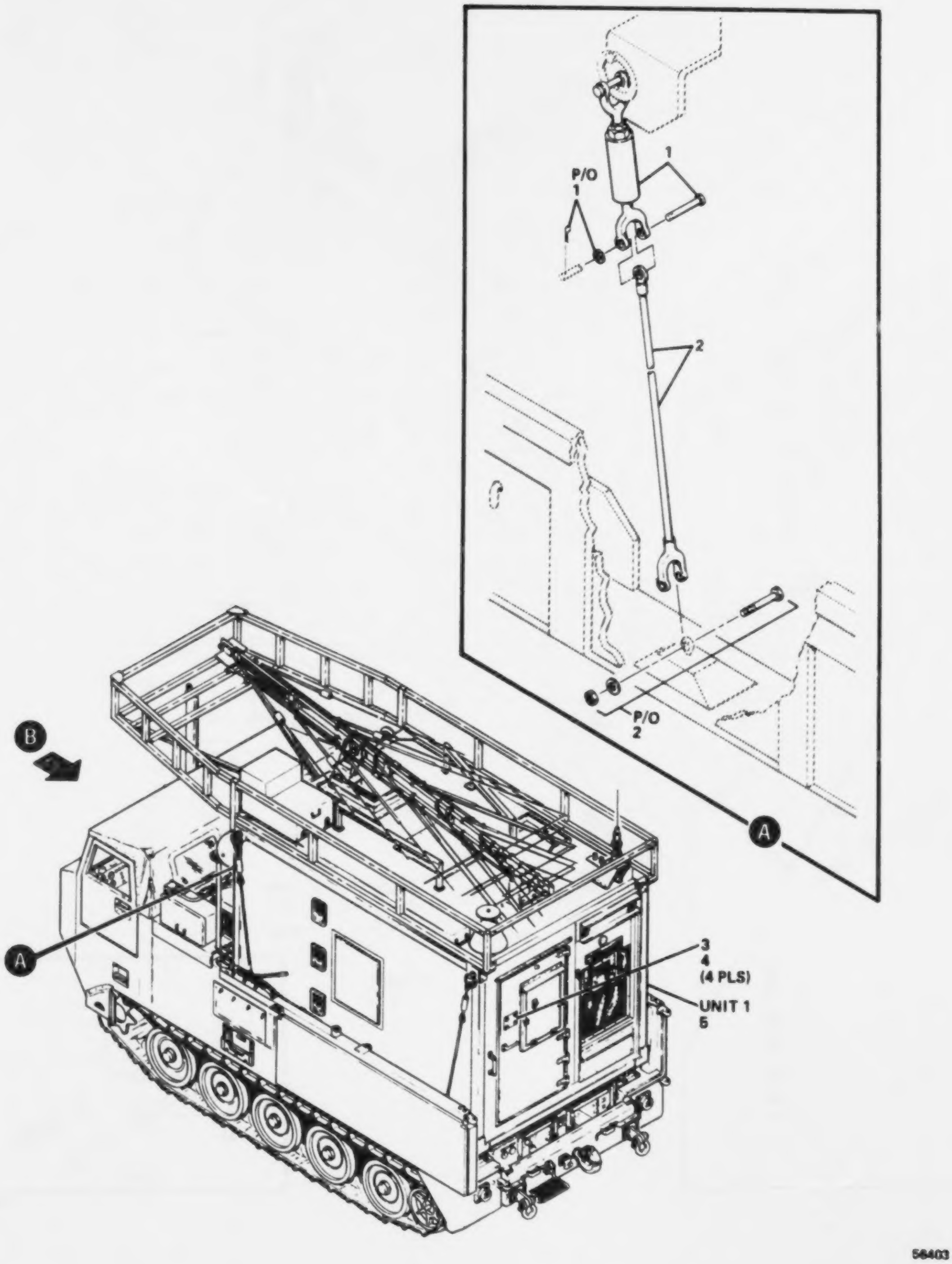


Figure C-1. Countermeasures Set, Special Purpose 5051430-1 (Sheet 1 of 2)

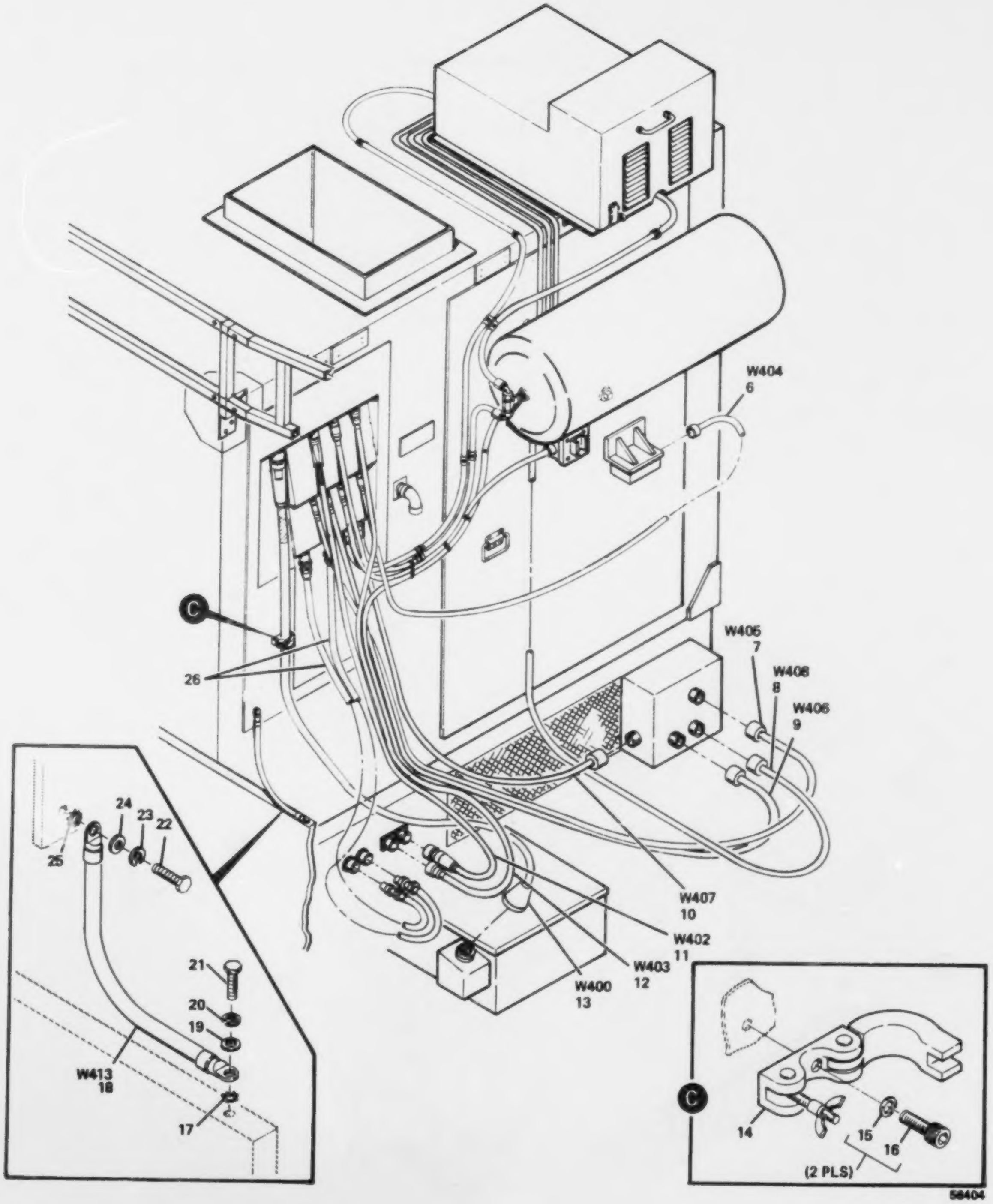


Figure C-1. Countermeasures Set, Special Purpose 5051430-1 (Sheet 2 of 2)

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00 COUNTERMEASURES SET. SPECIAL PURPOSE (57958) 5051430-1		
C-1	1	PAFZZ		5052030-2	57958	TURNBUCKLE	EA	4
C-1	2	XBFZZ		5054650-2	57958	WIRE ROPE ASSY	EA	4
C-1	3	PAFZZ		C5075885-1	57958	PLATE,IDENT	EA	1
C-1	4	XBFZZ	5320-00-932-1972	M24243-6A402H	81349	RIVET,BLIND	EA	4
C-1	5	XBHDD		5051510-1	57958	SHLTR,ELEC EQPT	EA	1
C-1	6	XBFZZ		5055502-404	57958	CABLE ASSY,SP	EA	1
C-1	7	XBFZZ		5055502-405	57958	CABLE ASSY,SP	EA	1
C-1	8	XBFFF		C5077385-408	57958	CABLE ASSY,SP	EA	1
C-1	9	XBFFF		5053210-406	57958	CABLE ASSY,SP	EA	1
C-1	10	XBFFF		5055502-407	57958	CABLE ASSY,PWR	EA	1
C-1	11	XBFFF		5053205-402	57958	CABLE ASSY,PWR	EA	1
C-1	12	XBFZZ		5055502-403	57958	CABLE ASSY,SP	EA	1
C-1	13	XBFFF		5051722-1	57958	WIRING HARNESS	EA	1
C-1	14	PAFFF		C5077132-1	57958	BRKT,CABLE ASSY	EA	1
C-1	15	PAFZZ	5310-00-764-9564	NAS620C416L	80205	WASHER,FLAT	EA	2
C-1	16	PAFZZ	5305-00-182-9460	NAS1352C4-12	80205	SCR,CAP,SKT HD	EA	6
C-1	17	PAFZZ	5310-00-655-6151	MS35335-65	96906	WASHER,LOCK	EA	1
C-1	18	XBFFF		5053207-413	57958	CABLE ASSY,PWR	EA	1
C-1	19	PAFZZ	5310-00-809-5998	MS27183-18	96906	WASHER,FLAT	EA	1
C-1	20	PAFZZ	5310-00-933-8778	MS35338-143	96906	WASHER,LOCK	EA	1
C-1	21	PAFZZ	5305-00-719-5221	MS90727-113	96906	SCR,CAP,HEX HD	EA	1
C-1	22	PAFZZ	5305-00-269-3214	MS90725-64	96906	SCR,CAP,HEX HD	EA	1
C-1	23	PAFZZ	5310-00-984-7042	MS35338-141	96906	WASHER, LOCK	EA	1
C-1	24	PAFZZ	5310-00-080-6004	MS27183-14	96906	WASHER, FLAT	EA	1
C-1	25	PAFZZ	5310-00-209-0790	MS35335-63	96906	WASHER,LOCK	EA	1
C-1	26	PAFZZ		5052226-1	57958	HOSE ASSY,NM	EA	2

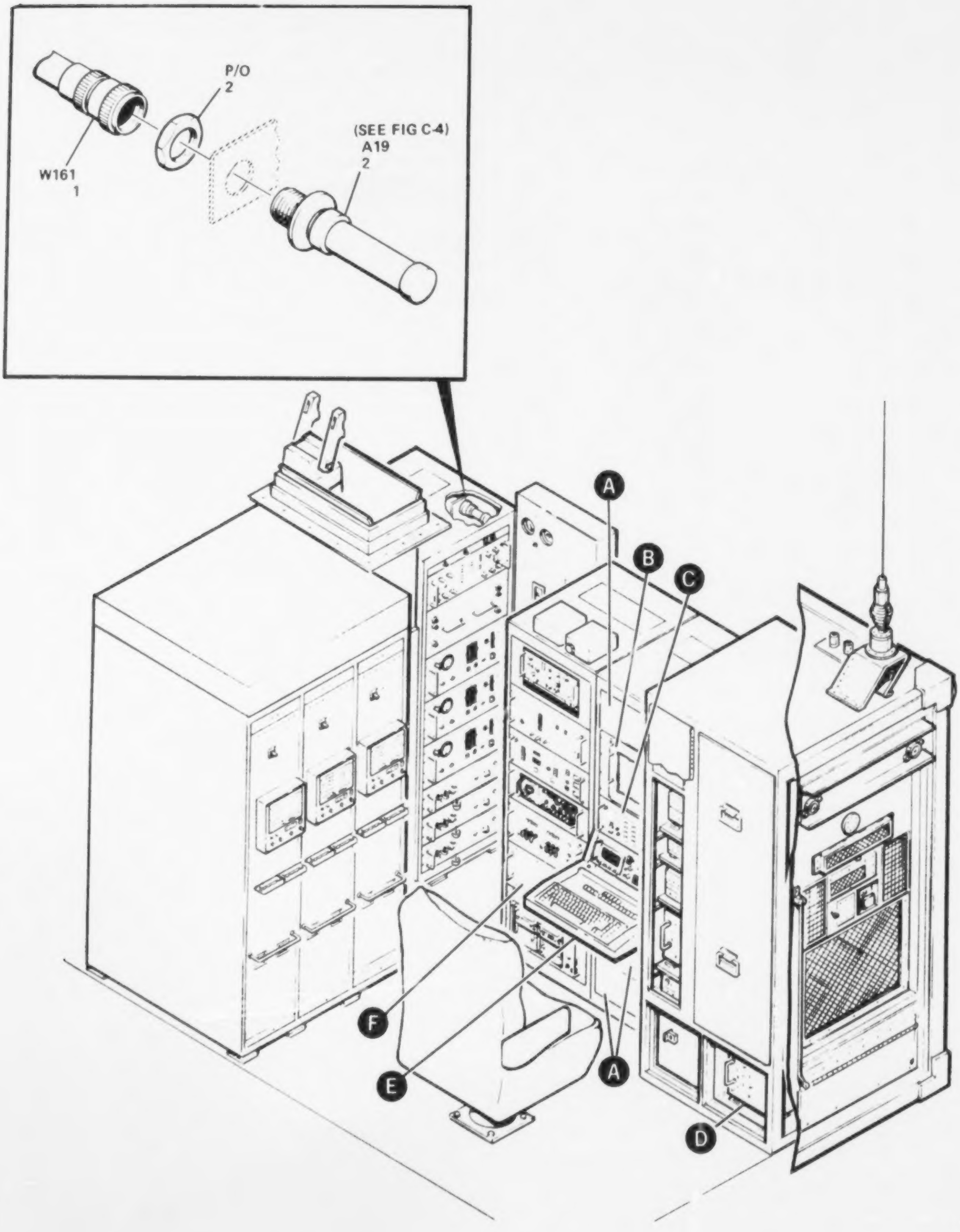


Figure C-2. Computer and Control Functional Group (Sheet 1 of 5)

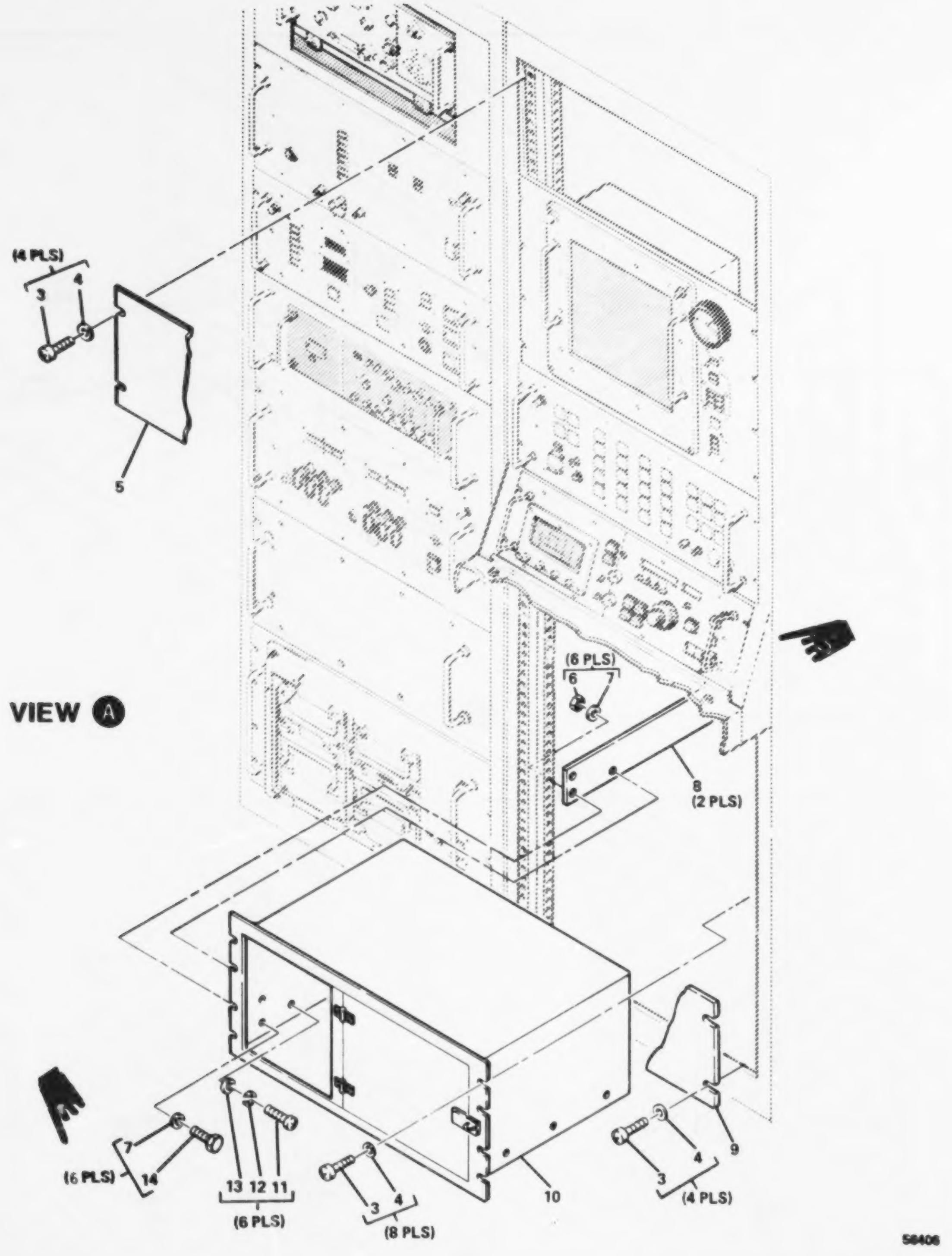


Figure C-2. Computer and Control Functional Group (Sheet 2 of 5)

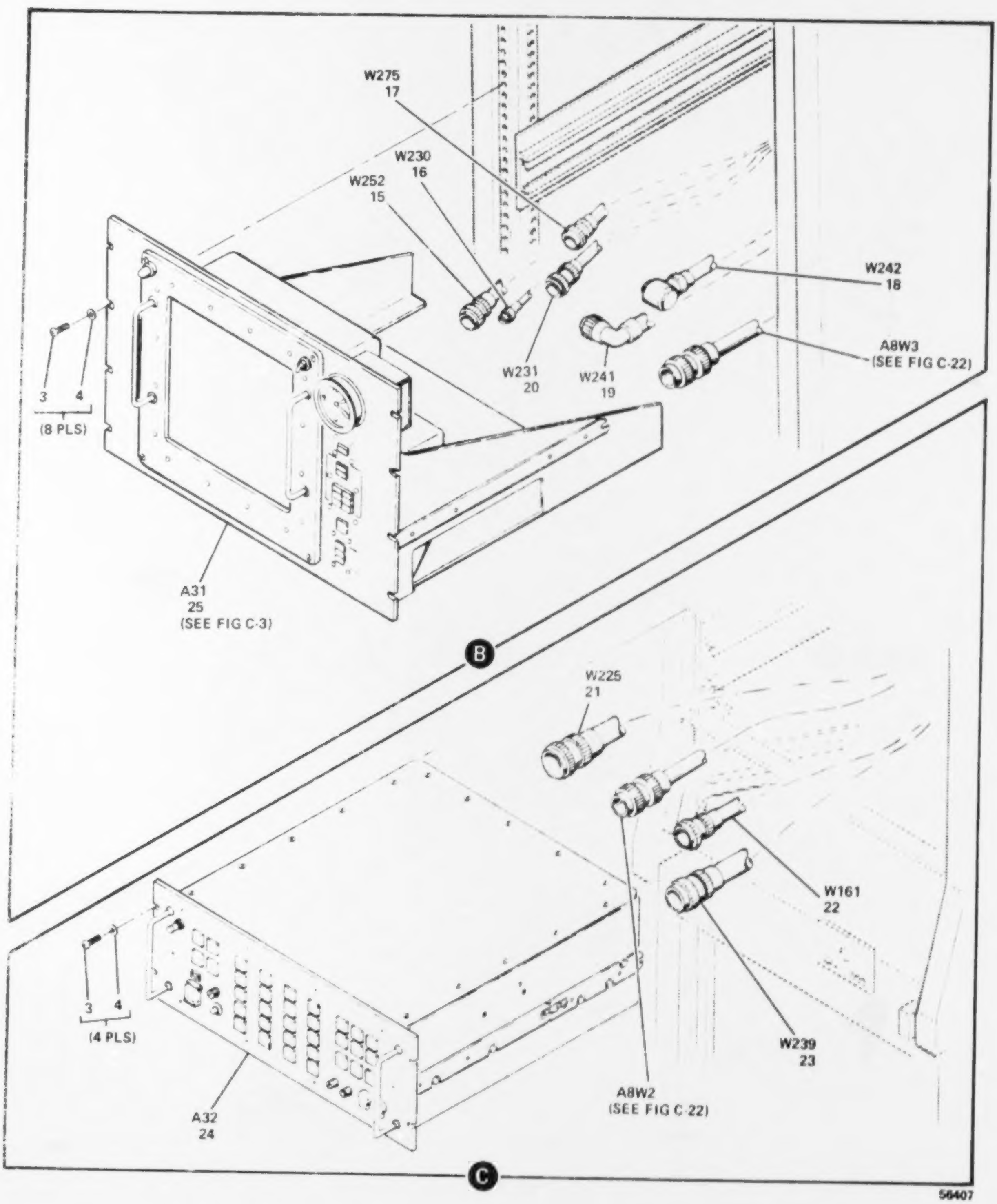


Figure C-2. Computer and Control Functional Group (Sheet 3 of 5)

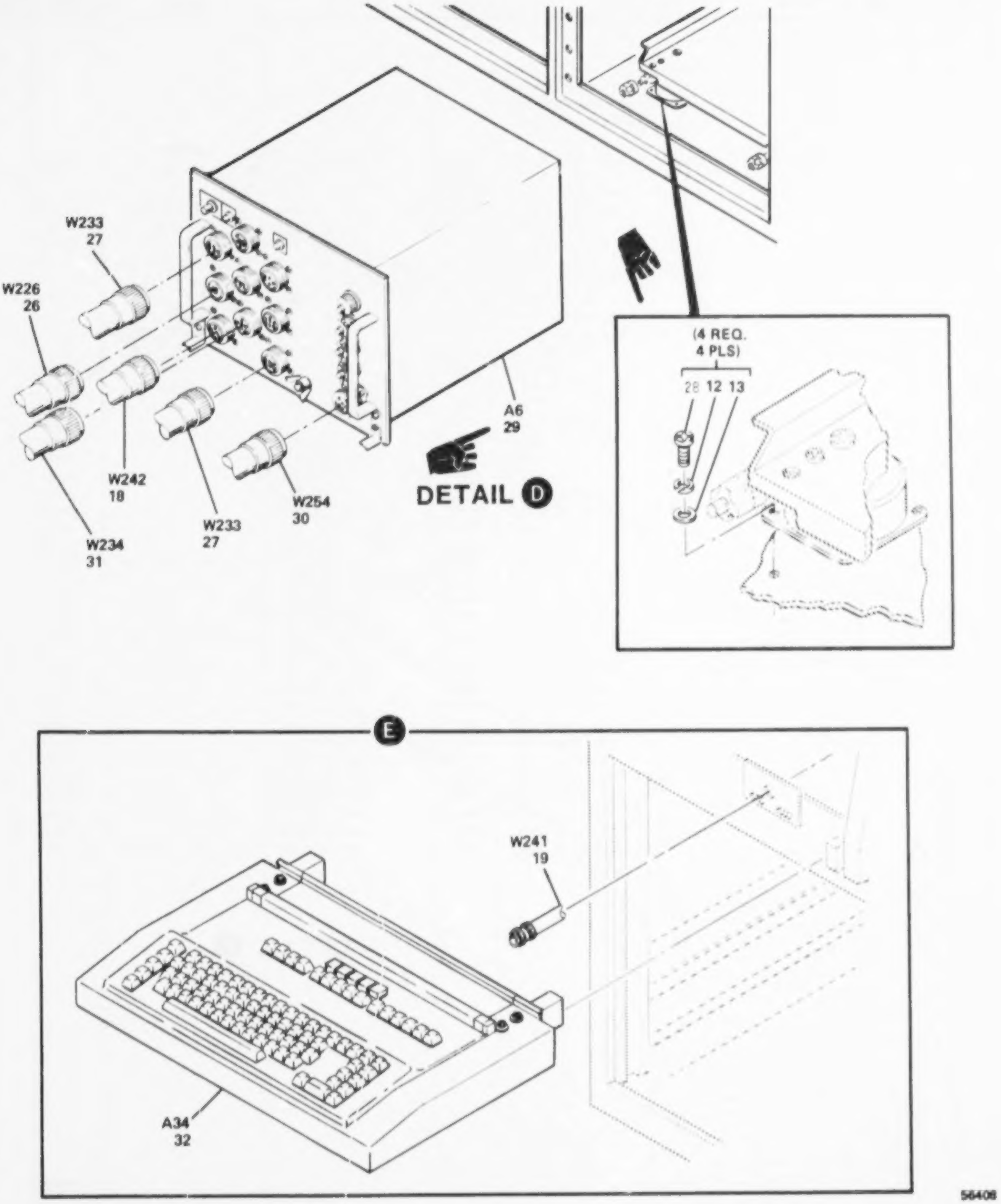


Figure C-2. Computer and Control Functional Group (Sheet 4 of 5)

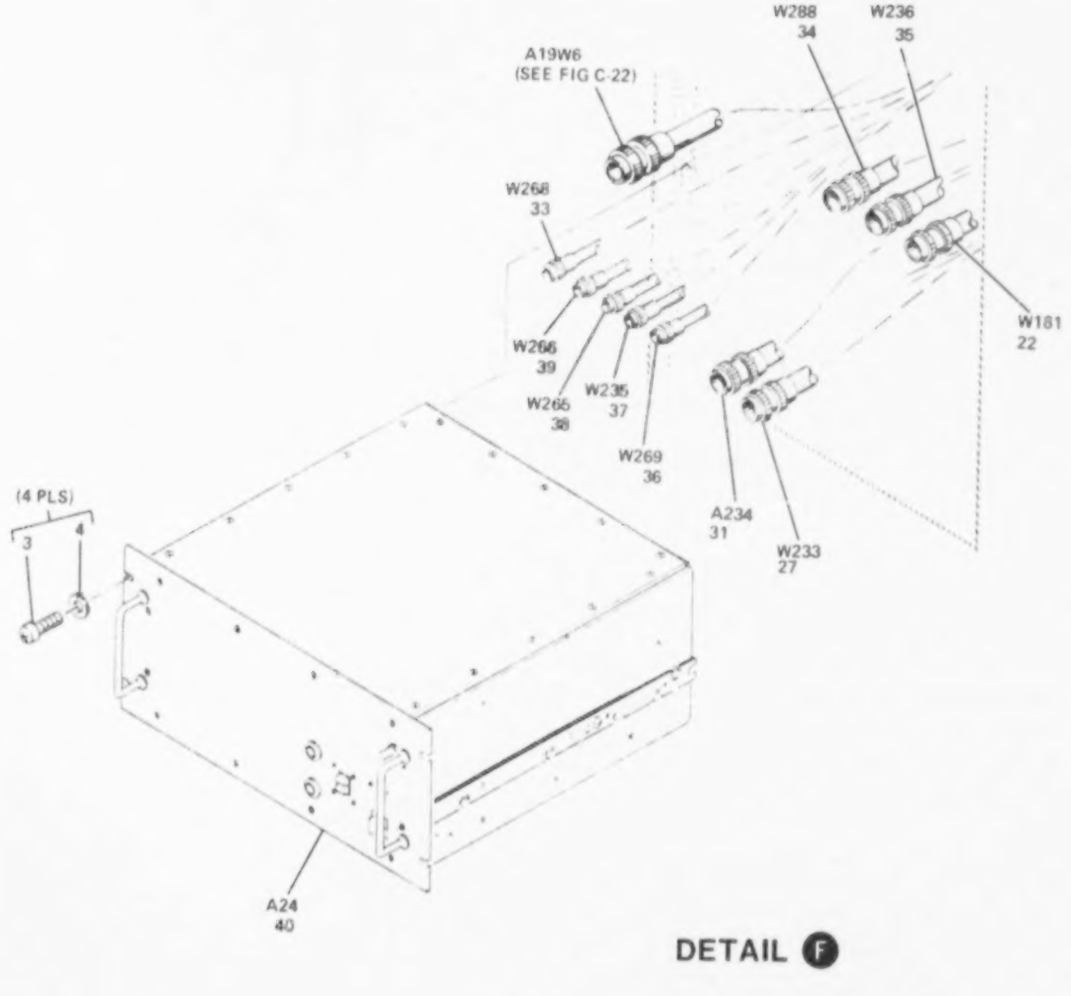
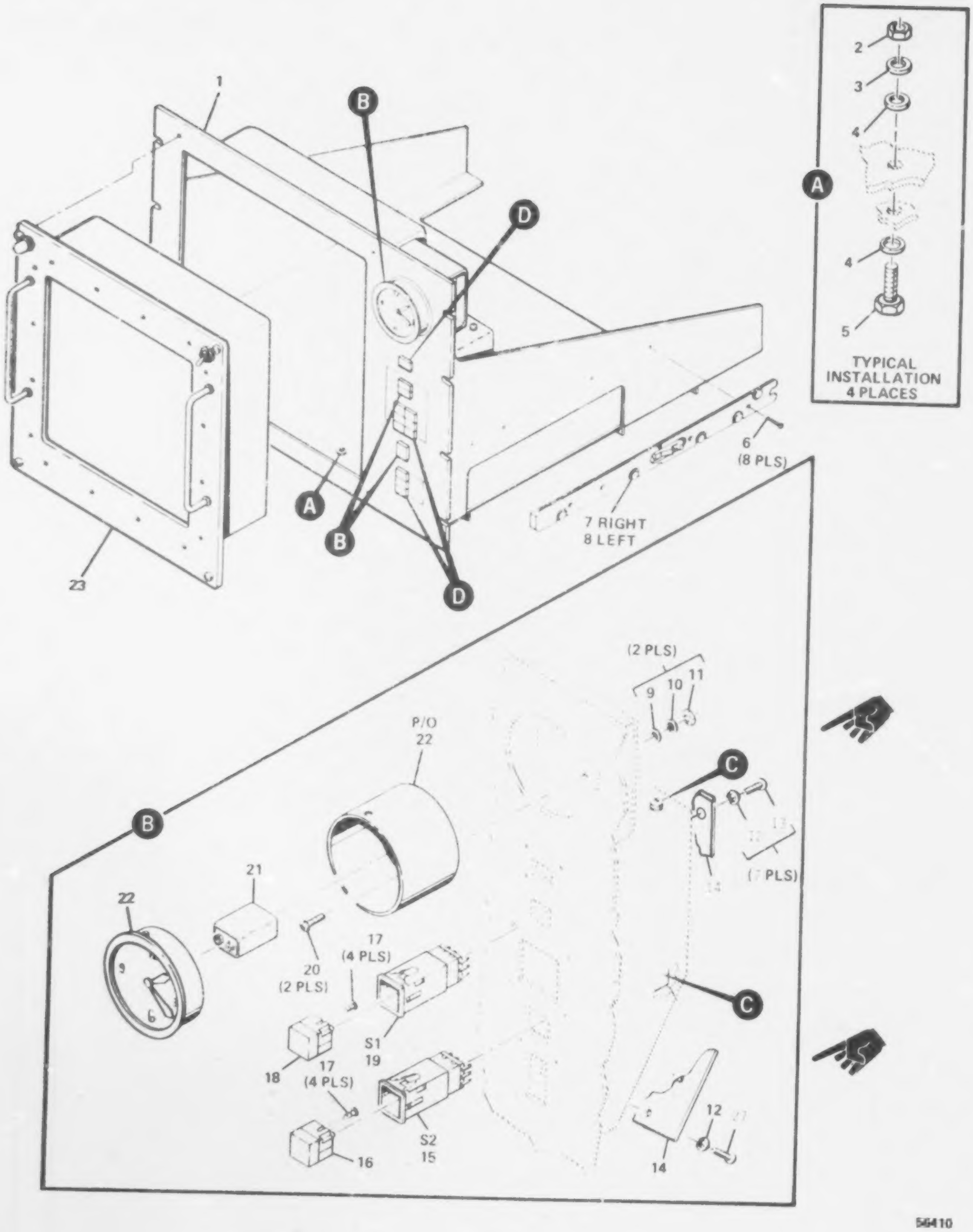


Figure C-2. Computer and Control Functional Group (Sheet 5 of 5)

SECTION II REPAIR PARTS LIST

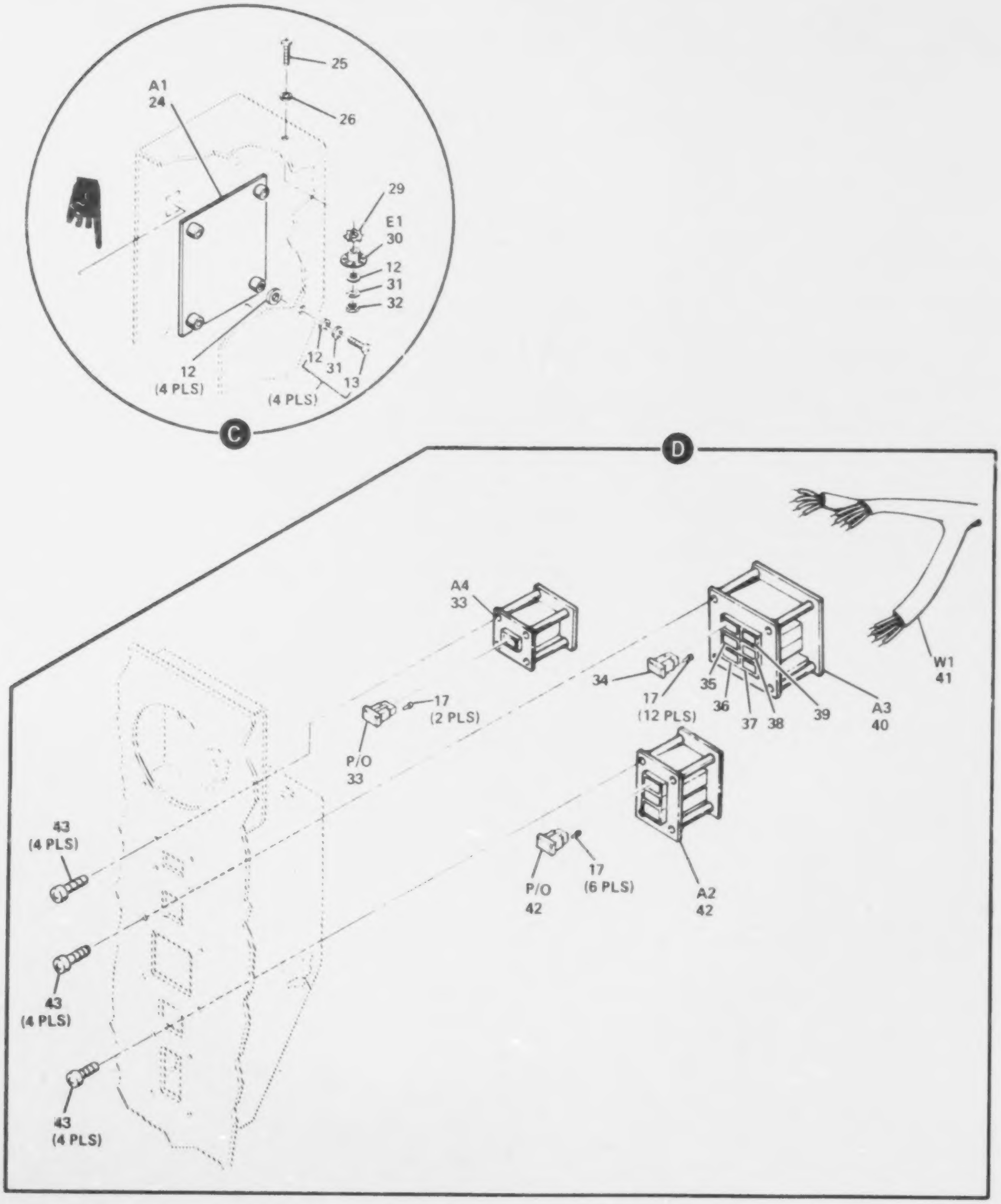
(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 0101 COMPUTER AND CONTROL FUNCTIONAL GROUP		
C-2	1	XBDDD		5053206-260	57958	CABLE ASSY,RF	EA	1
C-2	2	PAFZZ		5053244-1	57958	TERMN ASSY	EA	1
C-2	3	PAFZZ	5970-01-141-5254	5054678-1	57958	INSULATOR,WSHR	EA	24
C-2	4	PAFZZ	5305-00-926-5532	5054677-1	57958	SCREW,MACHINE	EA	24
C-2	5	XBFZZ		5053262-1	57958	PANEL,BLANK	EA	1
C-2	6	PAFZZ	5310-00-245-8825	MS16228-4C	96906	NUT,SLFLKG,HEX	EA	6
C-2	7	PAFZZ	5310-00-764-9564	NAS620C416L	80205	WASHER,FLAT	EA	12
C-2	8	PAFZZ		5051789-1	57958	BAR,MTG,ADAPTER	EA	2
C-2	9	XBFZZ		5055511-1	57958	PANEL,BLANK	EA	1
C-2	10	XBFZZ		C5075812-1	57958	COMPT,STOWAGE	EA	1
C-2	11	PAFZZ	5305-00-059-3659	MS51958-63	96906	SCR,MACH,PAN HD	EA	6
C-2	12	PAFZZ	5310-00-933-8120	MS35338-138	96906	WASHER,LOCK	EA	22
C-2	13	PAFZZ	5310-00-595-6772	MS15795-808	96906	WASHER,FLAT	EA	22
C-2	14	PAFZZ	5305-00-068-0508	MS90728-6	96906	SCR,CAP,HEX HD	EA	6
C-2	15	XBDDD		5053205-252	57958	CABLE ASSY,SP	EA	1
C-2	16	XBDDD		5053205-230	57958	CABLE ASSY,SP	EA	1
C-2	17	XBDDD		C5077377-275	57958	CABLE ASSY,SP	EA	1
C-2	18	XBDDD		C5077387-242	57958	CABLE ASSY,SP	EA	1
C-2	19	XBDDD		C5077387-241	57958	CABLE ASSY,SP	EA	1
C-2	20	XBDDD		5053205-231	57958	CABLE ASSY,SP	EA	1
C-2	21	XBDDD		5053205-225	57958	CABLE ASSY,SP	EA	1
C-2	22	XBDDD		C5077401-1	57958	CABLE ASSY,SP	EA	1
C-2	23	XBDDD		5053205-239	57958	CABLE ASSY,SP	EA	1
C-2	24	PAOHD	5865-01-109-3983	5051600-1	57958	CONTROL-IND	EA	1
C-2	25	PAFFF		5051580-1	57958	DISPLAY SET	EA	1
C-2	26	XBDDD		5053205-226	57958	CABLE ASSY,SP	EA	1
C-2	27	XBDDD		C5077397-1	57958	WIRING HARNESS	EA	1
C-2	28	PAFZZ	5305-00-059-3660	MS51958-64	96906	SCR,MACH.PAN HD	EA	16
C-2	29	XC		5053100-1	57958	DATA PRCSG SET	EA	1
C-2	30	XBDDD		C5077384-254	57958	CABLE ASSY,SP	EA	1
C-2	31	XBDDD		5053205-234	57958	CABLE ASSY,SP	EA	1
C-2	32	XBFFF		5053498-1	57958	KEYBOARD,DSPL	EA	1
C-2	33	XBDDD		5053206-268	57958	CABLE ASSY,RF	EA	1
C-2	34	XBDDD		C5077400-1	57958	CABLE ASSY,SP	EA	1
C-2	35	XBDDD		5053205-236	57958	CABLE ASSY,SP	EA	1
C-2	36	XBDDD		5053206-269	57958	CABLE ASSY,RF	EA	1
C-2	37	XBDDD		5053206-235	57958	CABLE ASSY,RF	EA	1
C-2	38	XBDDD		5053206-265	57958	CABLE ASSY,RF	EA	1
C-2	39	XBDDD		5053206-266	57958	CABLE ASSY,RF	EA	1
C-2	40	PDOHD	5865-01-109-1686	5051660-1	57958	CONT,DATA LINK	EA	1



PREFIX ALL REFERENCE DESIGNATIONS WITH: A31
Figure C-3. Display Set 5051580-1 (Sheet 1 of 2)

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 010102 DISPLAY SET (57958) 5051580-1		
C-3	1	XBFFF		5051586-1	57958	CHAS,ELEC EQPT	EA	1
C-3	2	PAFZZ	5310-00-880-7744	MS51967-5	96906	NUT,PLAIN,HEX	EA	4
C-3	3	PAFZZ	5310-00-407-9566	MS35338-45	96906	WASHER,LOCK	EA	4
C-3	4	PAFZZ	5310-00-081-4219	MS27183-12	96906	WASHER,FLAT	EA	8
C-3	5	PAFZZ	5306-00-226-4831	MS90728-38	96906	SCR,CAP,HEX HD	EA	4
C-3	6	PAFZZ	5305-00-088-9666	MS24693C51	96906	SCR,MACH,FL HD	EA	8
C-3	7	XBFZZ		5054833-2	57958	SLIDE SECT,DWR	EA	1
C-3	8	XBFZZ		5054833-1	57958	SLIDE SECT,DWR	EA	1
C-3	9	PAFZZ	5310-00-722-5998	MS15795-805	96906	WASHER,FLAT	EA	2
C-3	10	PAFZZ	5310-00-929-6395	MS35338-136	96906	WASHER,LOCK	EA	2
C-3	11	PAFZZ	5310-00-934-9761	MS35649-264	96906	NUT,PLAIN,HEX	EA	2
C-3	12	PAFZZ	5310-00-595-6211	MS15795-803	96906	WASHER,FLAT	EA	17
C-3	13	PAFZZ	5305-00-054-5649	MS51957-15	96906	SCR,MACH,PAN HD	EA	11
C-3	14	XBFFF		5051583-1	57958	COVER,ELEC EQPT	EA	1
C-3	15	PAFZZ	5930-01-132-8668	5054830-1	57958	SWITCH,PUSH	EA	1
C-3	16	PAFZZ		5054892-83	57958	LIGHT,INDICATOR	EA	1
C-3	17	PAFZZ	6240-01-147-4339	MS3338-6839	96906	LAMP,INCAND	EA	28
C-3	18	PAFZZ	6210-01-132-9232	5054892-42	57958	LIGHT,INDICATOR	EA	1
C-3	19	PAHZZ	5930-01-132-8670	5054830-6	57958	SWITCH,PUSH	EA	1
C-3	20	PAFZZ	5305-00-054-6652	MS51957-28	96906	SCR,MACH,PAN HD	EA	2
C-3	21	PAFZZ	6135-00-866-3825	BA-53	81349	BATTERY,DRY	EA	1
C-3	22	PAFZZ		5053219-1	57958	CLOCK PANEL	EA	1
C-3	23	PDFHD	7035-00-533-4464	ANUY010	80058	DISPLAY SET	EA	1

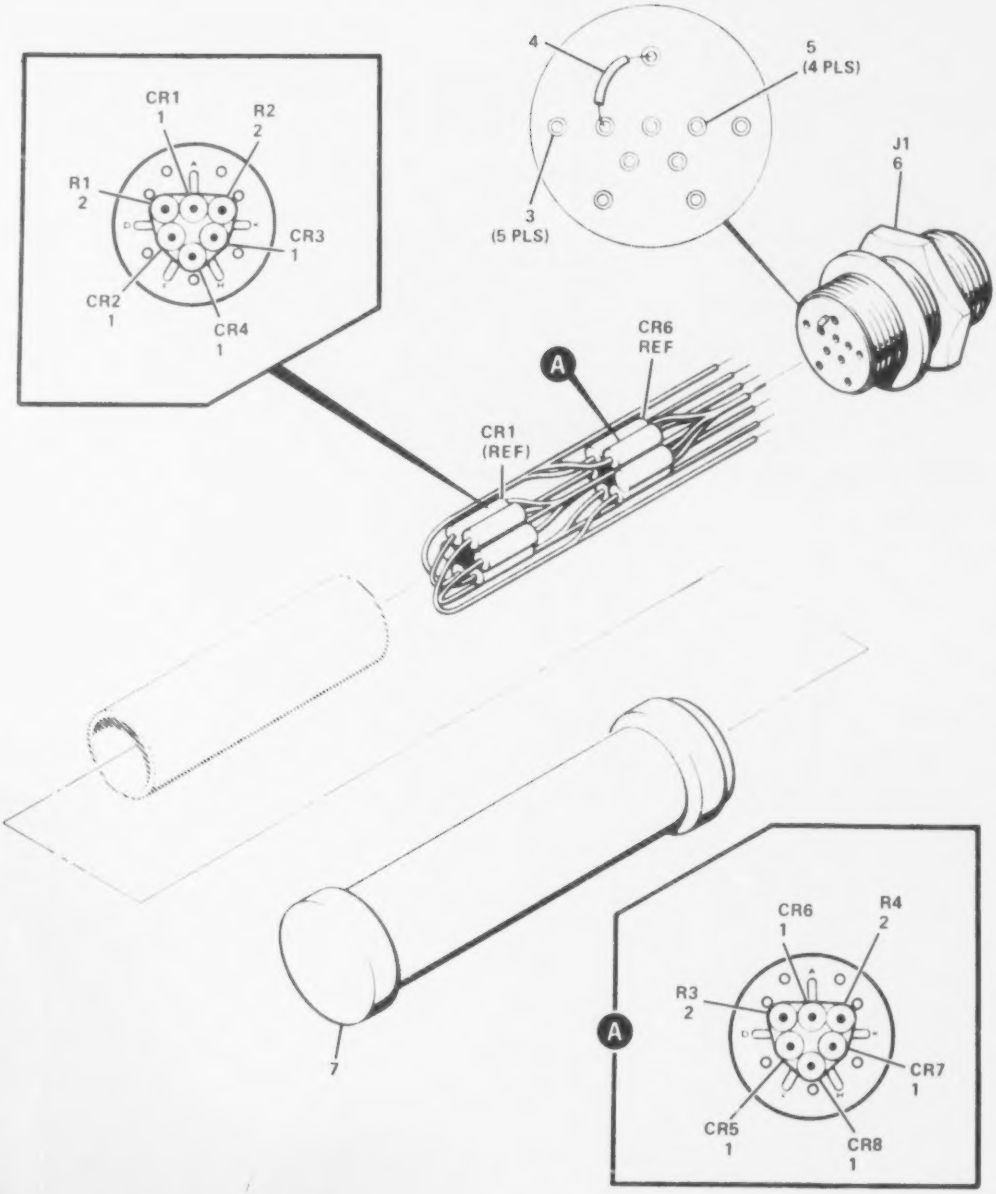


56411

Figure C-3. Display Set 5051580-1 (Sheet 2 of 2)

SECTION II REPAIR PARTS LIST

	(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
	C-3	24	PAHHD		5051944-2	57958	CKT CARD ASSY	EA	1
	C-3	25	PAFZZ	5305-00-054-5652	MS51957-18	96906	SCR,MACH,PAN HD	EA	1
	C-3	26	PAFZZ	5310-00-057-0573	NAS620C4	80205	WASHER,FLAT	EA	1
C	C-3	27	PAFZZ	5305-00-054-5648	MS51957-14	96906	SCR,MACH,PAN HD	EA	1
C									
	C-3	29	PAFZZ	5310-00-058-3599	MS35335-57	96906	WASHER,LOCK	EA	1
	C-3	30	PAFZZ	5940-00-939-7825	SE26XF03	81349	TERMINAL,STUD	EA	1
	C-3	31	PAFZZ	5310-00-933-8118	MS35338-135	96906	WASHER,LOCK	EA	5
	C-3	32	PAFZZ	5310-00-934-9748	MS35649-244	96906	NUT,PLAIN,HEX	EA	1
	C-3	33	PAFZZ		5053215-1	57958	IND LIGHT ASSY	EA	1
	C-3	34	PAFZZ		5054907-111	57958	LIGHT,INDICATOR	EA	1
	C-3	35	PAFZZ		5054907-113	57958	LIGHT,INDICATOR	EA	1
	C-3	36	PAFZZ		5054907-115	57958	LIGHT,INDICATOR	EA	1
	C-3	37	PAFZZ		5054907-116	57958	LIGHT,INDICATOR	EA	1
	C-3	38	PAFZZ		5054907-114	57958	LIGHT,INDICATOR	EA	1
	C-3	39	PAFZZ		5054907-112	57958	LIGHT,INDICATOR	EA	1
	C-3	40	PAFZZ		5053218-1	57958	IND LIGHT ASSY	EA	1
	C-3	41	XBFFF		C5077591-1	57958	HRG HARNESS,BR	EA	1
	C-3	42	PAFZZ		5053216-1	57958	IND LIGHT ASSY	EA	1
	C-3	43	PAFZZ	5305-00-066-7328	MS24693C27	96906	SCR,MACH,FL HD	EA	12



PREFIX ALL REFERENCE DESIGNATIONS WITH: A19
Figure C-4. Termination Bus Assy. 5053244-1

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 010105 TERMINATION BUS ASSY (57958) 5053244-1		
C-4	1	PAFZZ	5961-00-333-9058	JAN1N4622	81349	SCND DVC,DIODE	EA	8
C-4	2	PAFZZ	5905-00-113-4861	RCR07G390JS	81349	RES,FXD,CMPSN	EA	4
C-4	3	PAFZZ		5053244-101	57958	LEAD	EA	5
C-4	4	MFFZZ		5053244-105	57958	JUMPER	EA	1
C-4	5	PAFZZ		5053244-103	57958	LEAD	EA	4
C-4	6	PAFZZ	5935-01-068-1637	MS3474L14-19P	96906	CONN,RCPT,ELEC	EA	1
C-4	7	PAFZZ		5054284-1	57958	SHLD,ELEC CONN	EA	1

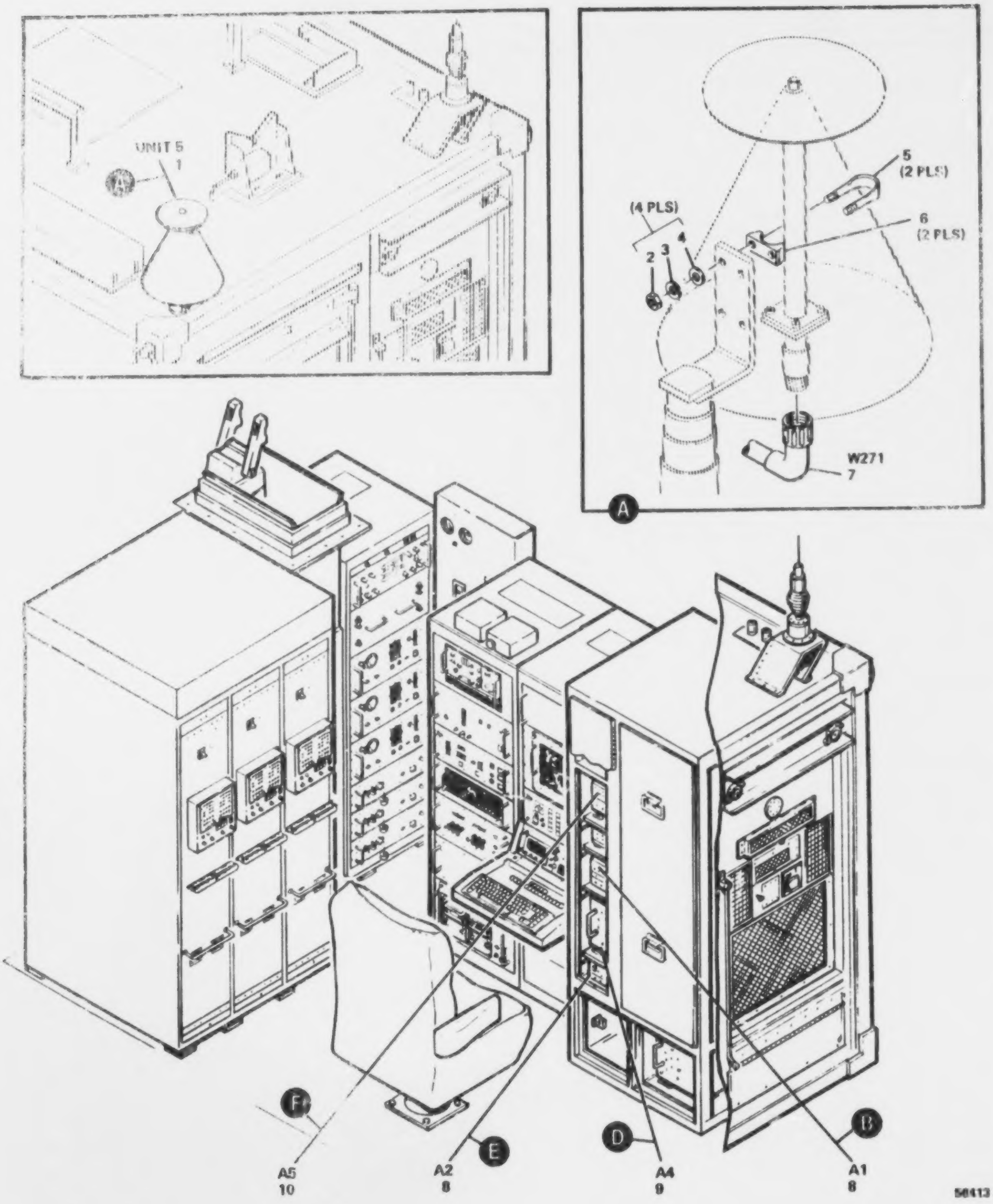


Figure C-5 ta Link Functional Group (Sheet 1 of 5)

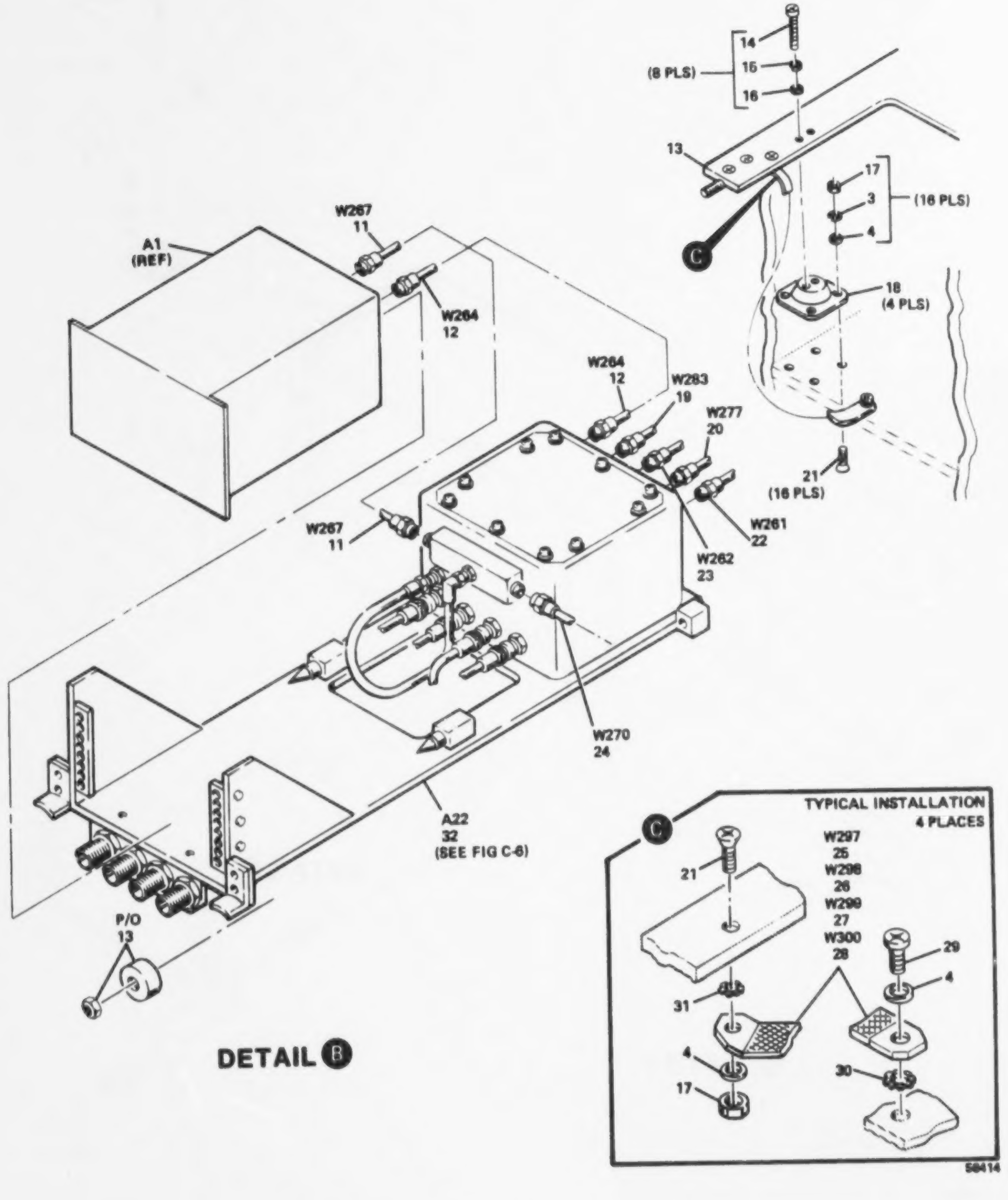


Figure C-5. Data Link Functional Group (Sheet 2 of 5)

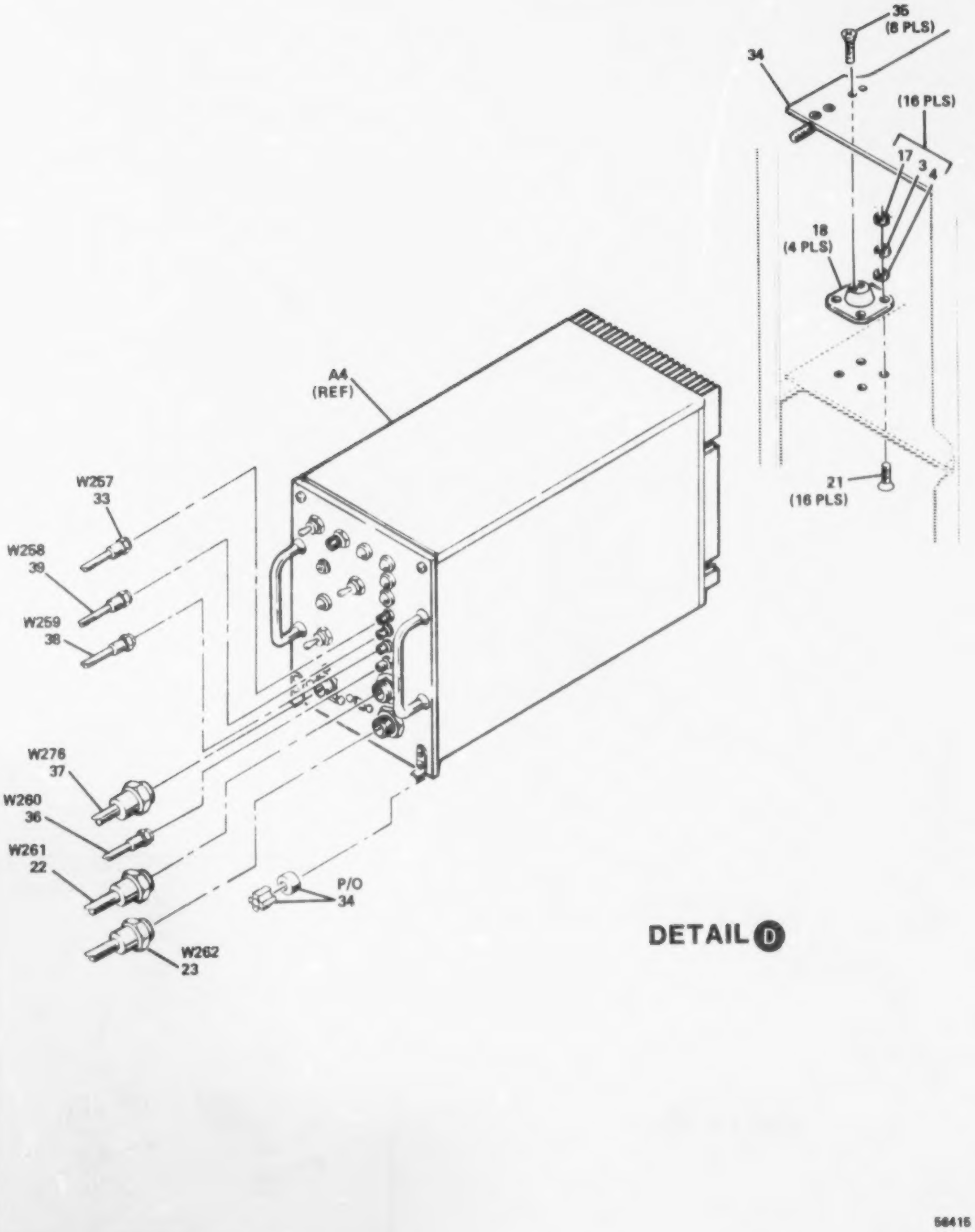


Figure C-5. Data Link Functional Group (Sheet 3 of 5)

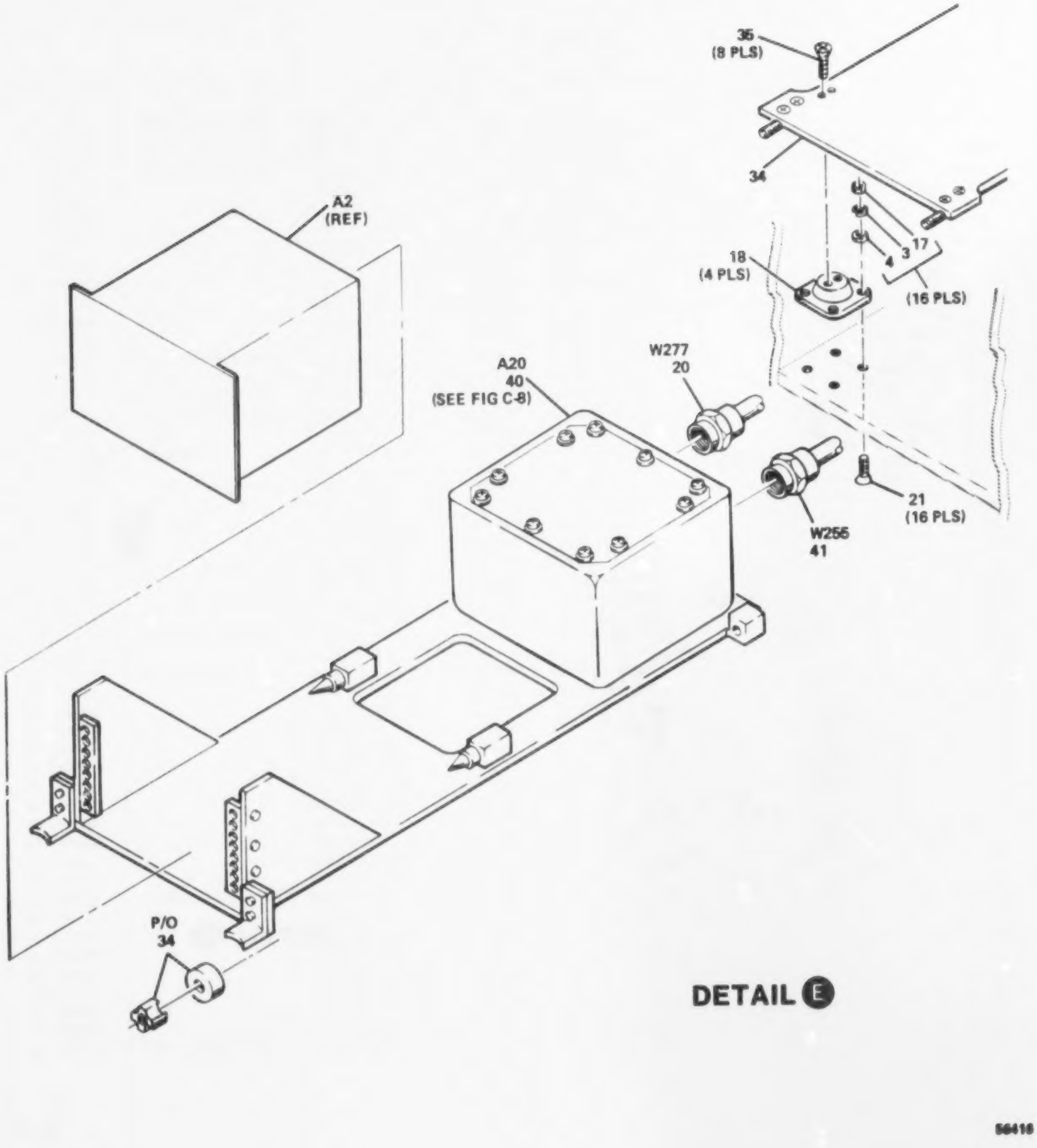


Figure C-5. Data Link Functional Group (Sheet 4 of 5)

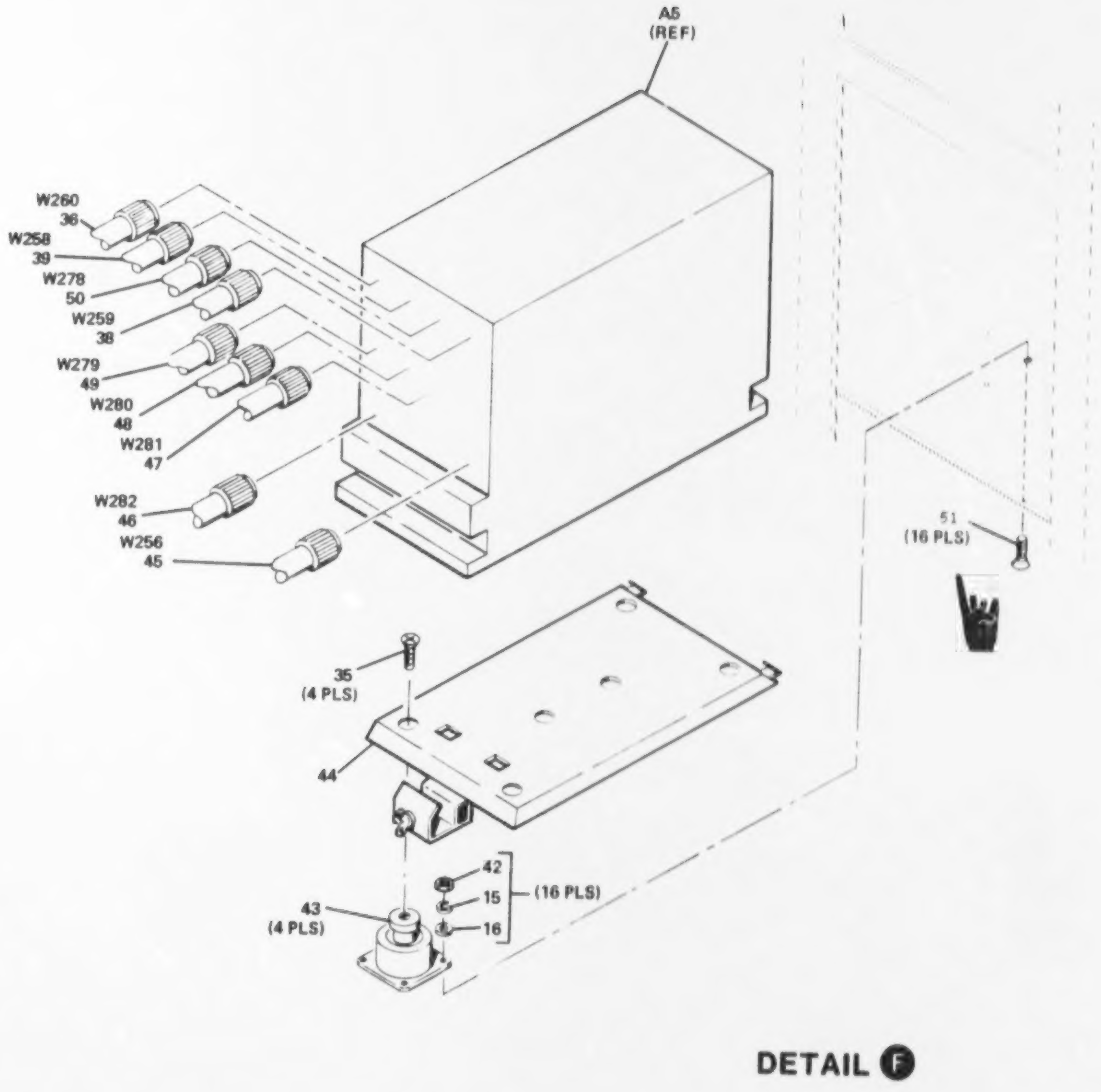
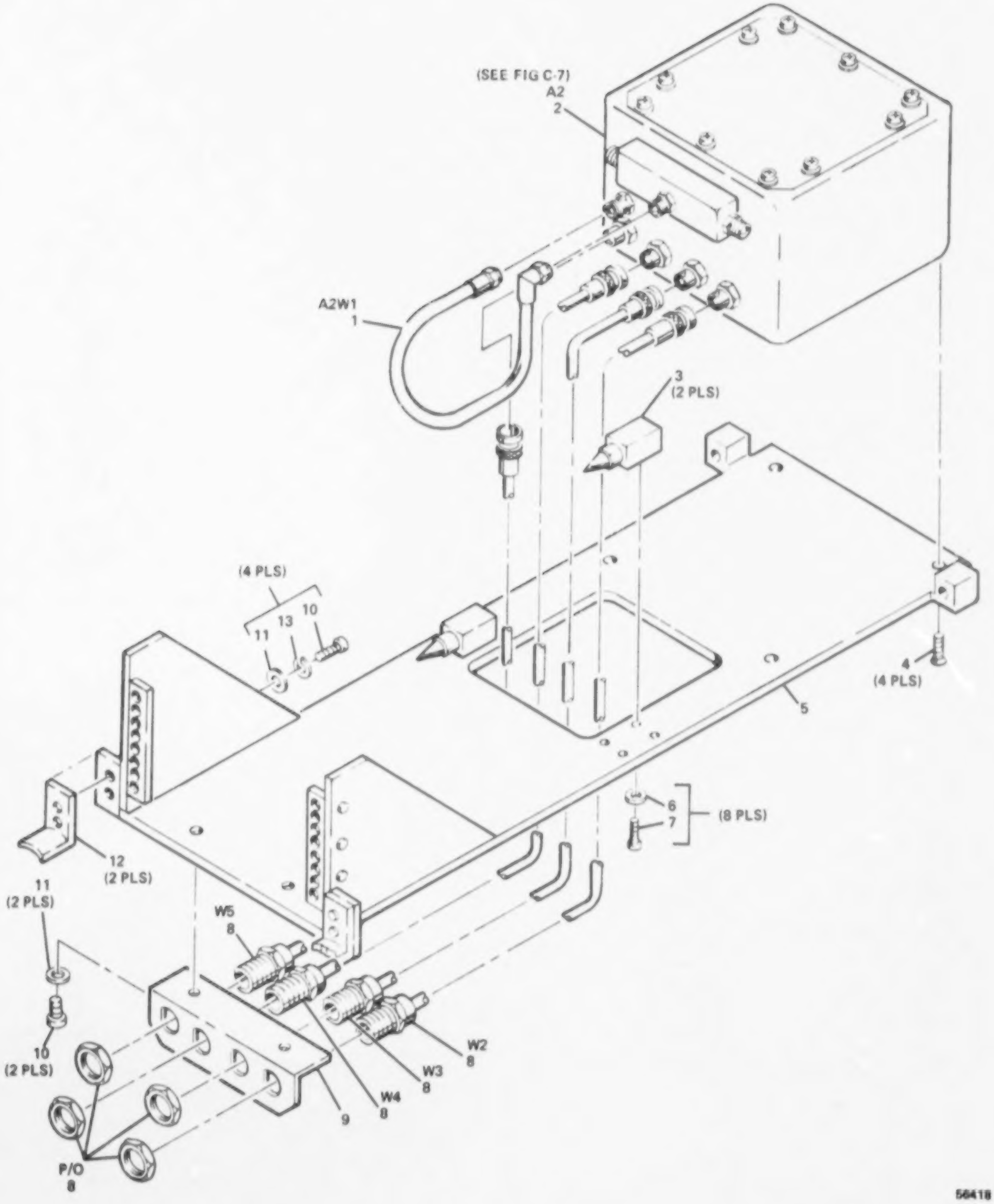


Figure C-5. Data Link Functional Group (Sheet 5 of 5)

SECTION II REPAIR PARTS LIST

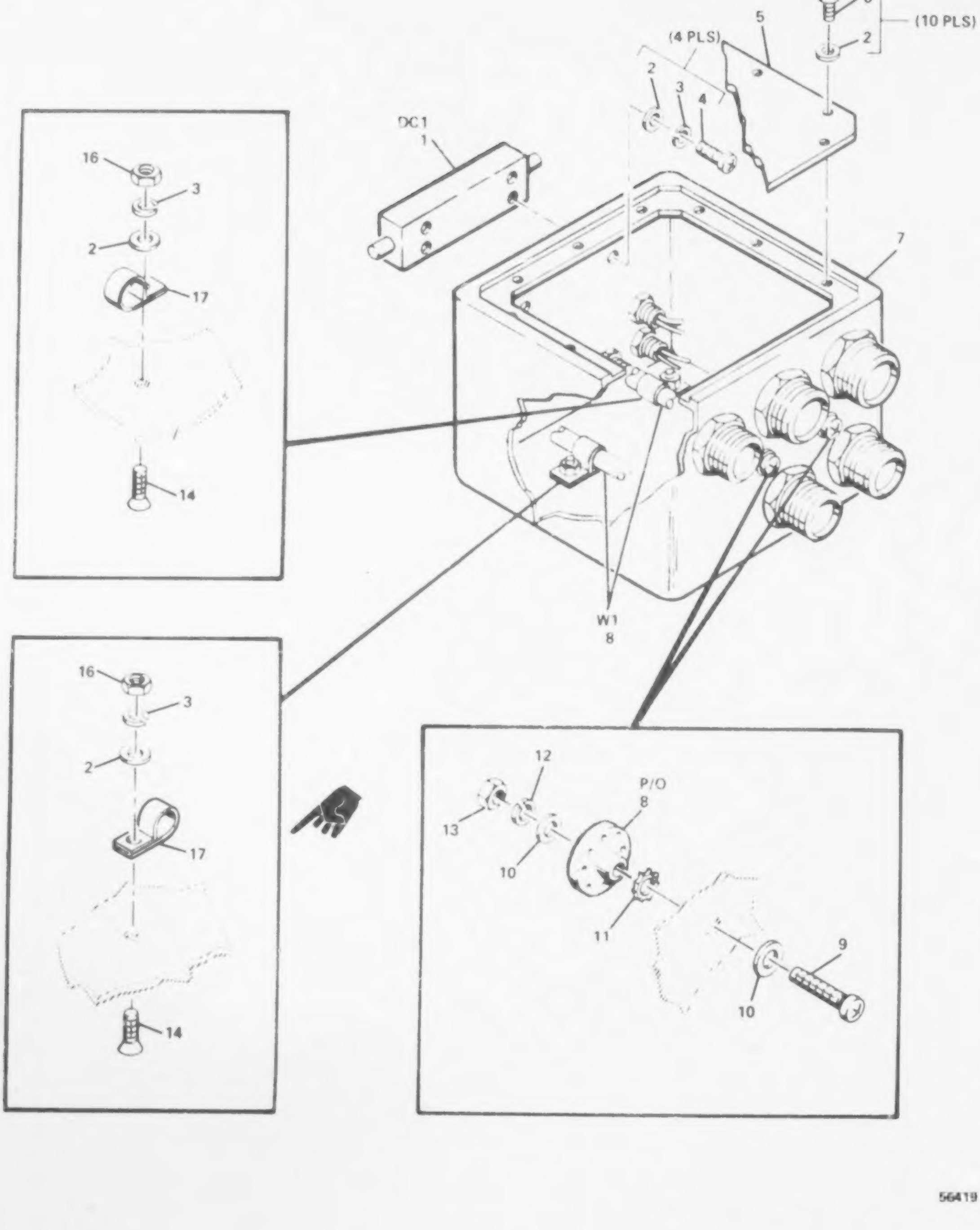
	(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
	(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
							GROUP 0102 DATA LINK FUNCTIONAL GROUP		
	C-5	1	PAFZZ	5865-01-109-1695	5051460-1	57958	ANTENNA	EA	1
	C-5	2	PAFZZ	5310-00-934-9765	MS35650-304	96906	NUT,PLAIN,HEX	EA	4
	C-5	3	PAFZZ	5310-00-933-8120	MS35338-138	96906	WASHER,LOCK	EA	62
	C-5	4	PAFZZ	5310-00-595-6772	MS15795-808	96906	WASHER,FLAT	EA	59
	C-5	5	PAFZZ		5054386-1	57958	BOLT,U	EA	2
	C-5	6	PAFZZ		5054387-1	57958	STRAP,RETAINING	EA	2
	C-5	7	XBDDD		C5077375-271	57958	CABLE ASSY,RF	EA	1
	C-5	8	PAHZZ		RT1167ARC164	80058	RCVR-XMTR	EA	2
	C-5	9	PDFHD		5052240-501	57958	MODEM,DATA LINK	EA	1
	C-5	10	PDFHD		KG45	80058	ENCODER-DECODER	EA	1
	C-5	11	XBDDD		5053206-267	57958	CABLE ASSY,RF	EA	1
	C-5	12	XBDDD		5053205-264	57958	CABLE ASSY,SP	EA	1
	C-5	13	PAFZZ		C5077584-1	57958	MTG BASE,EQPT	EA	1
	C-5	14	PAFZZ	5305-00-054-6670	MS51957-45	96906	SCR,MACH,PAN HD	EA	8
	C-5	15	PAFZZ	5310-01-067-9589	MS35338-137	96906	WASHER,LOCK	EA	24
	C-5	16	PAFZZ	5310-00-069-5291	NAS620C8	80205	WASHER,FLAT	EA	24
	C-5	17	PAFZZ	5310-00-934-9765	MS35650-304	96906	NUT,PLAIN,HEX	EA	62
	C-5	18	XBDZZ		5054970-1	57958	MOUNT,RESILIENT	EA	12
	C-5	19	XBDDD		5053205-283	57958	CABLE ASSY,SP	EA	1
	C-5	20	XBHHH		C5077384-277	57958	CABLE ASSY, SP	EA	1
C	C-5	21	PAFZZ	5305-00-959-4158	MS24693C273	96906	SCR,MACH,FL HD	EA	36
	C-5	22	XBDDD		5053205-261	57958	CABLE ASSY,SP	EA	1
	C-5	23	XBDDD		5053205-262	57958	CABLE ASSY,SP	EA	1
	C-5	24	XBDDD		C5077376-270	57958	CABLE ASSY,RF	EA	1
	C-5	25	PAFZZ		C5077574-297	57958	LEAD,ELECTRICAL	EA	1
	C-5	26	PAFZZ		C5077574-298	57958	LEAD,ELECTRICAL	EA	1
	C-5	27	PAFZZ		C5077574-299	57958	LEAD,ELECTRICAL	EA	1
	C-5	28	PAFZZ		C5077574-300	57958	LEAD,ELECTRICAL	EA	1
	C-5	29	PAFZZ	5305-00-059-3659	MS51958-63	96906	SCR,MACH,PAN HD	EA	4
	C-5	30	PAFZZ		MS35338-60	96906	WASHER,LOCK	EA	2
	C-5	31	PAFZZ	5310-00-209-1239	MS35335-60	96906	WASHER,LOCK	EA	2
	C-5	32	PAFFF		5051837-1	57958	INTCON BOX	EA	1
	C-5	33	XBDDD		5053206-257	57958	CABLE ASSY,RF	EA	1
	C-5	34	XBFFF		5052352-1	57958	MTG BASE,EQPT	EA	2
	C-5	35	PAFZZ		MS24693C50	96906	SCR,MACH,FL HD	EA	36
	C-5	36	XBDDD		5053206-260	57958	CABLE ASSY,RF	EA	1
	C-5	37	XBDDD		C5077381-276	57958	CABLE ASSY,SP	EA	1
	C-5	38	XBDDD		5053206-259	57958	CABLE ASSY,RF	EA	1
	C-5	39	XBDDD		5053206-258	57958	CABLE ASSY,RF	EA	1
	C-5	40	PAOHH		5055510-1	57958	POWER SUPPLY	EA	1
	C-5	41	XBDDD		C5077381-255	57958	CABLE ASSY,SP	EA	1
	C-5	42	PAFZZ		MS35649-284	96906	NUT,PLAIN HEX	EA	16
	C-5	43	XBDZZ	5340-00-103-2797	5054971-1	57958	MOUNT,RESILIENT	EA	4
	C-5	44	PAFZZ		5054621-1	57958	MTG BASE,EQPT	EA	1
	C-5	45	XBDDD		C5077381-256	57958	CABLE ASSY,SP	EA	1
	C-5	46	XBDDD		5053205-282	57958	CABLE ASSY,SP	EA	1
	C-5	47	XBDDD		5053206-281	57958	CABLE ASSY,RF	EA	1
	C-5	48	XBDDD		5053206-280	57958	CABLE ASSY,RF	EA	1
	C-5	49	XBDDD		5053206-279	57958	CABLE ASSY,RF	EA	1
	C-5	50	XBDDD		5053206-278	57958	CABLE ASSY,RF	EA	1
N	C-5	51	PAFZZ	5305-00-043-0267	MS24693C274	96906	SCR,MACH,FL HD	EA	16



PREFIX ALL REFERENCE DESIGNATIONS WITH: A22
Figure C-6. Interconnecting Box W/ARC-164 MTG Base 5051837-1

SECTION II REPAIR PARTS LIST

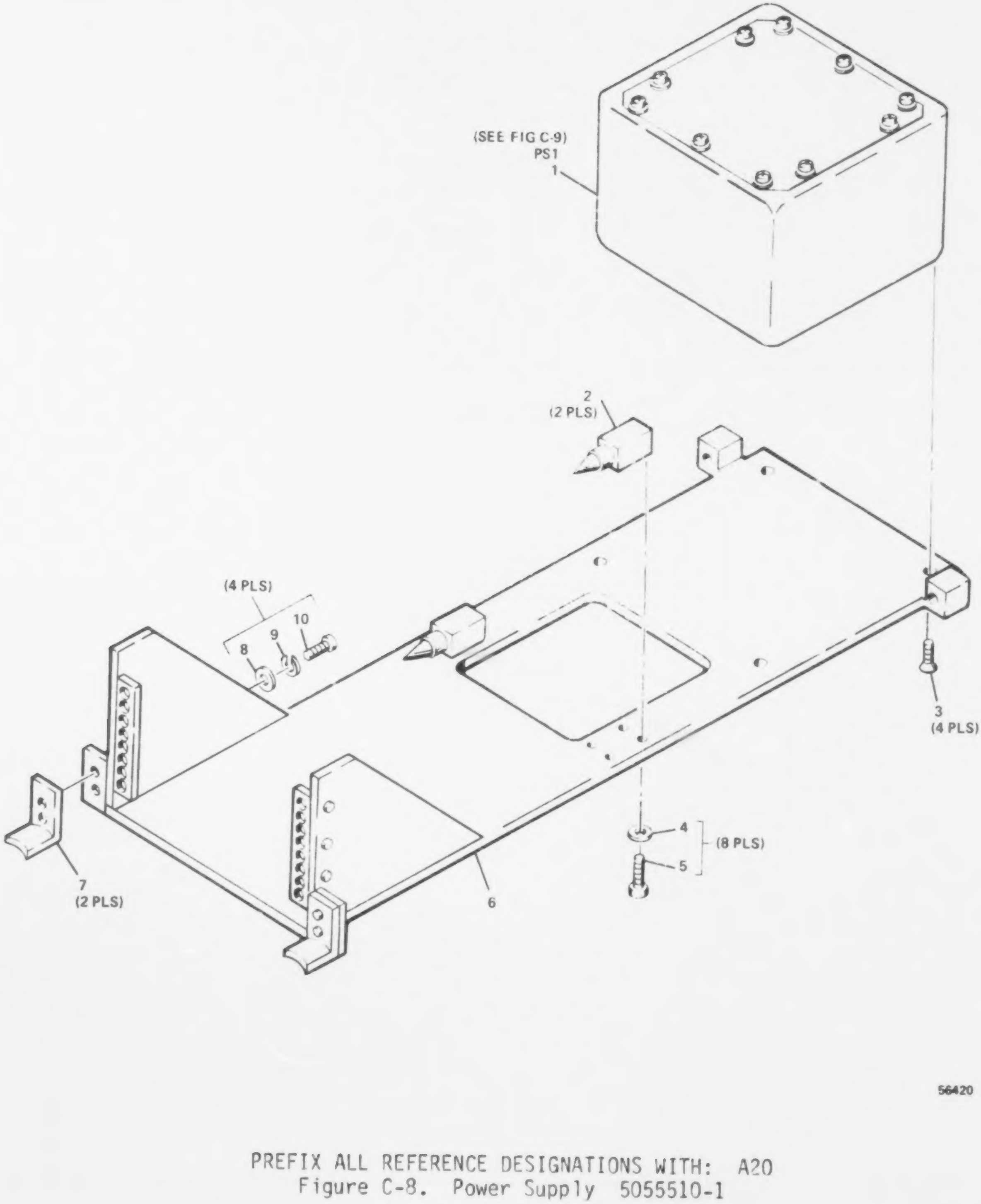
(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 010202 INTERCONNECTING BOX W/ARC-164 MTG BASE (57958) 5051837-1		
C-6	1	XBFFF		5055542-1	57958	CABLE ASSY,RF	EA	1
C-6	2	XBFFF		5052249-1	57958	INTCON BOX	EA	1
C-6	3	PAFZZ	5340-00-629-3413	5054732-1	57958	RTNR,ELEC EQPT	EA	2
C-6	4	PAMZZ	5305-00-043-0267	MS24693C274	96906	SCR,MACH,FL HD	EA	4
C-6	5	XBHHH		5051838-2	57958	MTG BASE,EQPT	EA	1
C-6	6	PAFZZ	5310-00-069-5291	NAS620C8	80205	WASHER,FLAT	EA	8
C-6	7	PAFZZ	5305-00-054-6667	MS51957-42	96906	SCR,MACH,PAN HD	EA	8
C-6	8	XBFFF		5055544-1	57958	CABLE ASSY,RF	EA	4
C-6	9	XBFZZ		5052254-1	57958	BRACKET,CONN	EA	1
C-6	10	PAFZZ	5305-00-054-6652	MS51957-28	96906	SCR,MACH,PAN HD	EA	6
C-6	11	PAFZZ	5310-00-722-5998	MS15795-805	96906	WASHER,FLAT	EA	6
C-6	12	PAFZZ	5340-01-023-6108	NAS622CT1	80205	HOOK,SUPPORT	EA	2
C-6	13	PAFZZ	5310-00-929-6395	MS35338-136	96906	WASHER,LOCK	EA	4



PREFIX ALL REFERENCE DESIGNATIONS WITH: A2
Figure C-7. Interconnecting Box Data Link 5052249-1

SECTION II REPAIR PARTS LIST

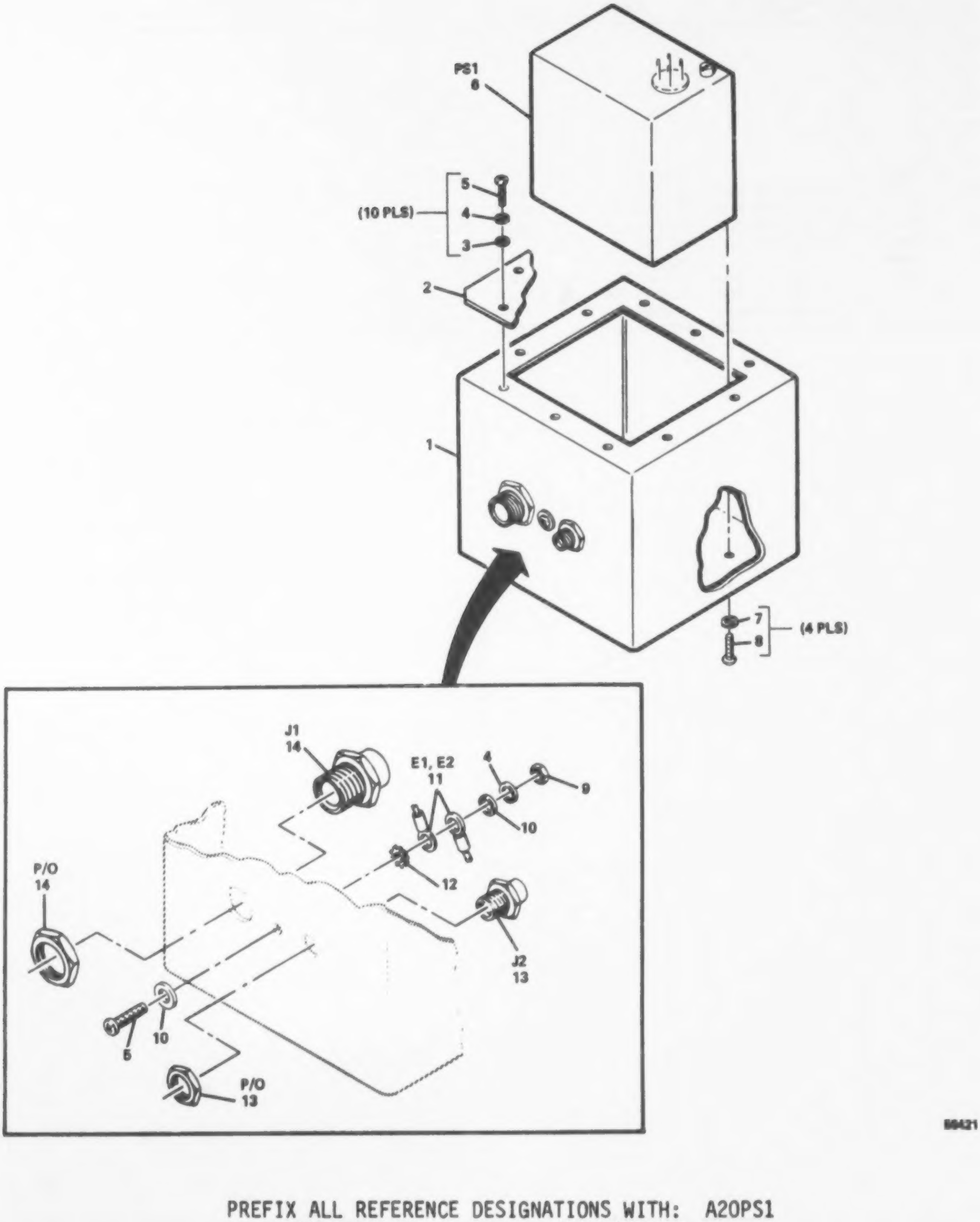
(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 01020201 INTERCONNECTING BOX DATA LINK (57958) 5052249-1		
C-7	1	PAFZZ		5054419-1	57958	COUPLER-DET	EA	1
C-7	2	PAFZZ	5310-00-722-5998	MS15795-805	96906	WASHER,FLAT	EA	16
C-7	3	PAFZZ	5310-00-929-6395	MS35338-136	96906	WASHER,LOCK	EA	6
C-7	4	PAFZZ	5305-00-054-6652	MS51957-28	96906	SCR,MACH,PAN HD	EA	4
C-7	5	PAHZZ		5052253-1	57958	COV,INTCON BOX	EA	1
C-7	6	PAFZZ	5305-00-054-6655	MS51957-31	96906	SCR,MACH,PAN HD	EA	10
C-7	7	XBFFF		5052252-1	57958	JUNCTION BOX	EA	1
C-7	8	XBFZZ		5052255-1	57958	WIRING HARNESS	EA	1
C-7	9	PAFZZ	5305-00-054-6672	MS51957-47	96906	SCR,MACH,PAN HD	EA	2
C-7	10	PAFZZ	5310-00-069-5291	NAS620C8	80205	WASHER,FLAT	EA	4
C-7	11	PAFZZ	5310-00-614-3552	MS35335-59	96906	WASHER,LOCK	EA	2
C-7	12	PAFZZ	5310-01-067-9589	MS35338-137	96906	WASHER,LOCK	EA	2
C-7	13	PAFZZ	5310-00-934-9759	MS35649-284	96906	NUT,PLAIN,HEX	EA	2
C-7	14	PAFZZ	5305-00-088-9665	MS24693C29	96906	SCR,MACH,FL HD	EA	2
C-7	15							
C-7	16	PAFZZ	5310-00-934-9761	MS35649-264	96906	NUT,PLAIN,HEX	EA	2
C-7	17	PAFZZ	5340-00-988-3210	MS25281R4	96906	CLAMP,LOOP	EA	2



PREFIX ALL REFERENCE DESIGNATIONS WITH: A20
Figure C-8. Power Supply 5055510-1

SECTION II REPAIR PARTS LIST

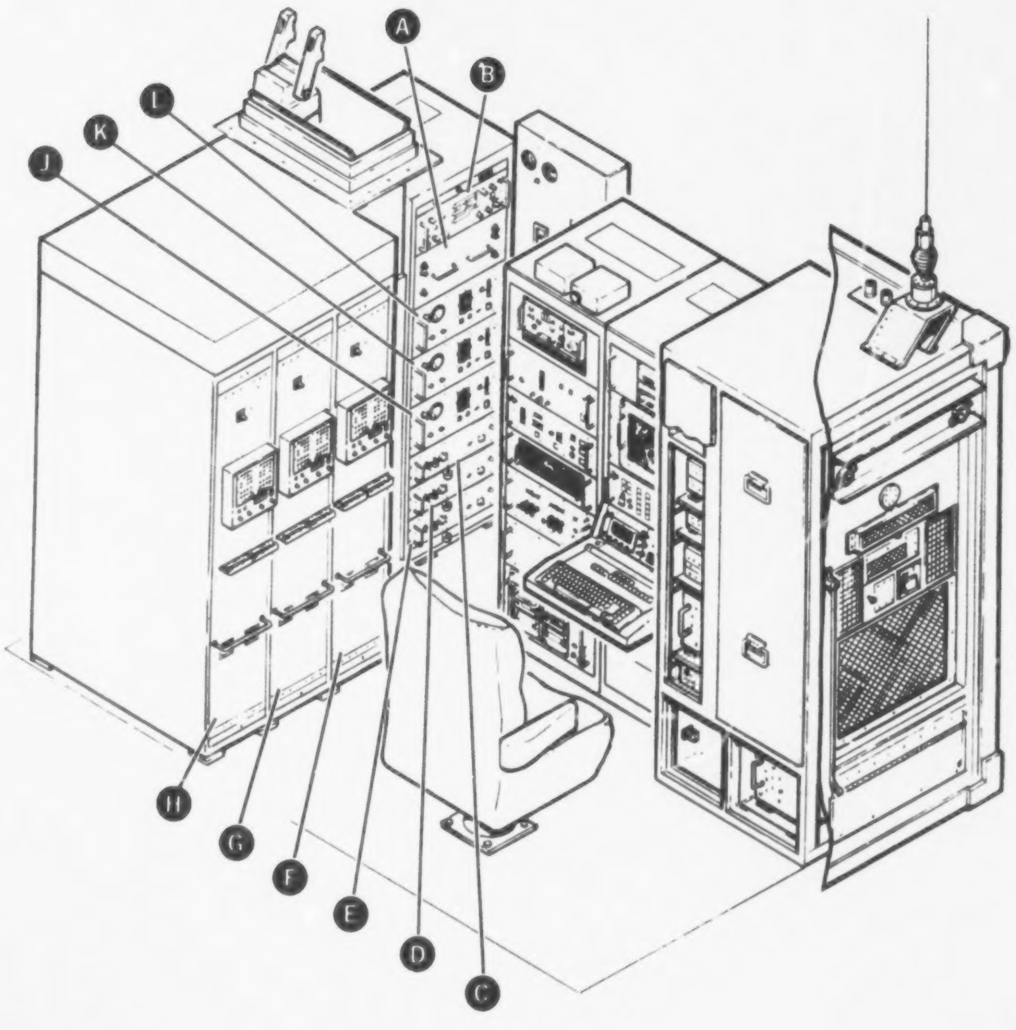
(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 010206 POWER SUPPLY (57958) 5055510-1		
C-8	1	XBHHH		5053275-1	57958	POWER SUPPLY	EA	1
C-8	2	PAFZZ	5340-00-629-3413	5054732-1	57958	RTNR,ELEC EQPT	EA	2
C-8	3	PAFZZ	5305-00-959-4158	MS24693C273	96906	SCR,MACH,FL HD	EA	4
C-8	4	PAFZZ	5310-00-069-5291	NAS620C8	80205	WASHER,FLAT	EA	8
C-8	5	PAFZZ	5305-00-054-6667	MS51957-42	96906	SCR,MACH,PAN HD	EA	8
C-8	6	XBHHH		5051838-1	57958	MTG BASE,EQPT	EA	1
C-8	7	PAFZZ	5340-01-023-6108	NAS622CT1	80205	HOOK,SUPPORT	EA	2
C-8	8	PAFZZ	5310-00-722-5998	MS15795-805	96906	WASHER,FLAT	EA	4
C-8	9	PAFZZ	5310-00-929-6395	MS35338-136	96906	WASHER,LOCK	EA	4
C-8	10	PAFZZ	5305-00-054-6652	MS51957-28	96906	SCR,MACH,PAN HD	EA	4



PREFIX ALL REFERENCE DESIGNATIONS WITH: A20PS1
Figure C-9. Power Supply 5053275-1

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 01020601 POWER SUPPLY (57958) 5053275-1		
C-9	1	XBHHH		5055281-1	57958	CHAS,ELEC EQPT	EA	1
C-9	2	PAHZZ		5052253-1	57958	COV,INTCON BOX	EA	1
C-9	3	PAFZZ	5310-00-722-5998	MS15795-805	96906	WASHER,FLAT	EA	10
C-9	4	PAFZZ	5310-00-929-6395	MS35338-136	96906	WASHER,LOCK	EA	11
C-9	5	PAFZZ	5305-00-054-6655	MS51957-31	96906	SCR,MACH,PAN HD	EA	11
C-9	6	PAHDD	6130-01-062-0818	0213-2-1196-12	57958	POWER SUPPLY	EA	1
C-9	7	PAFZZ	5310-00-595-6772	MS15795-808	96906	WASHER,FLAT	EA	4
C-9	8	PAHZZ	5305-00-059-3656	MS51958-60	96906	SCR,MACH,PAN HD	EA	[illegible]
C-9	9	PAHZZ	5310-00-616-8660	NAS671C6	80205	NUT,PLAIN,HEX	EA	1
C-9	10	PAHZZ	5310-00-773-7624	NAS620C6	80205	WASHER,FLAT	EA	2
C-9	11	PAHZZ	5940-00-204-8966	MS25036-102	96906	TERMINAL,LUG	EA	2
C-9	12	PAHZZ	5310-00-209-1366	MS35335-58	96906	WASHER,LOCK	EA	1
C-9	13	PAHZZ	5935-00-785-7021	MS3474L10-6S	96906	CONN,RCPT,ELEC	EA	1
C-9	14	PAHZZ	5935-00-481-4095	MS3474L12-3P	96906	CONN,RCPT,ELEC	EA	1



50422

Figure C-10. Jammer Functional Group (Sheet 1 of 13)

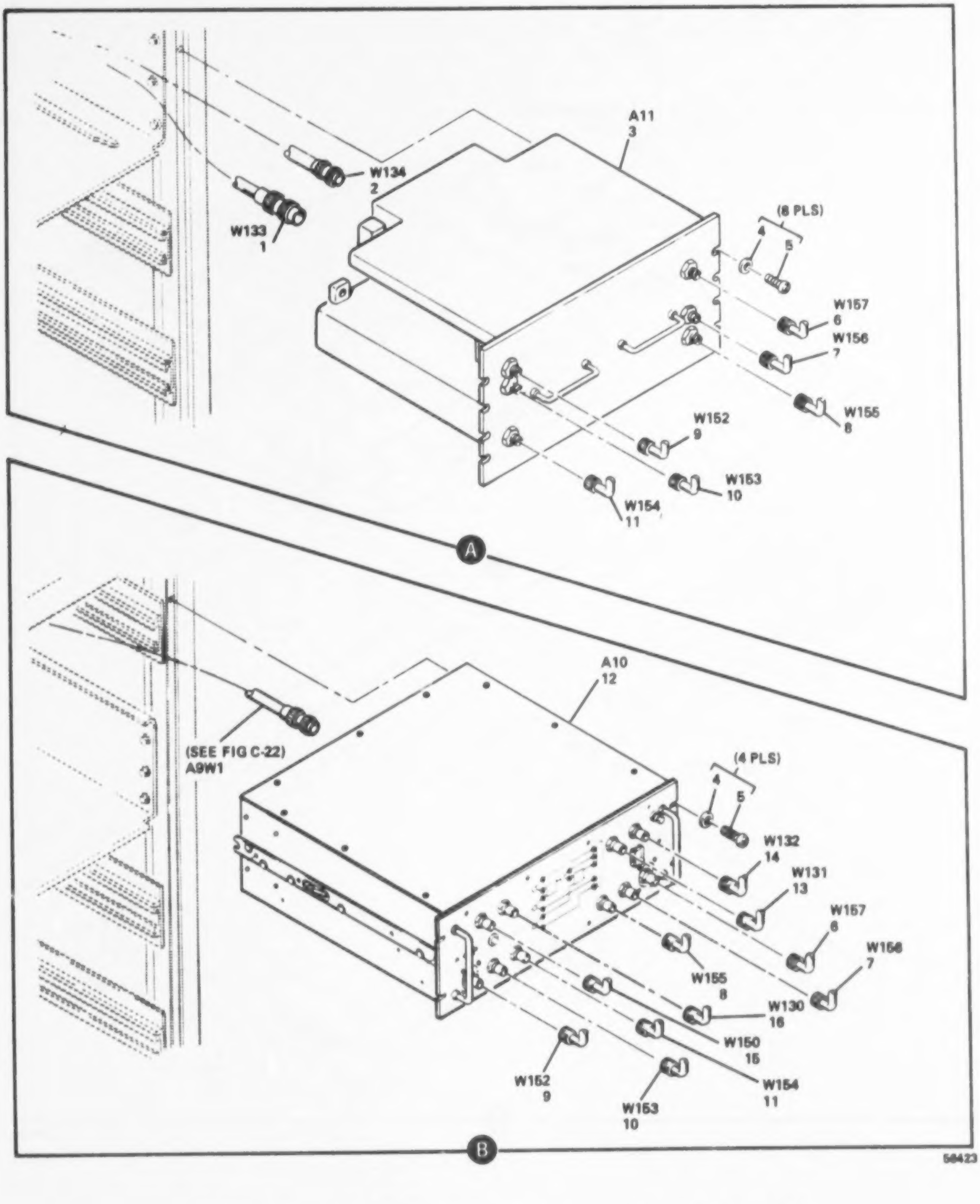


Figure C-10. Jammer Functional Group (Sheet 2 of 13)

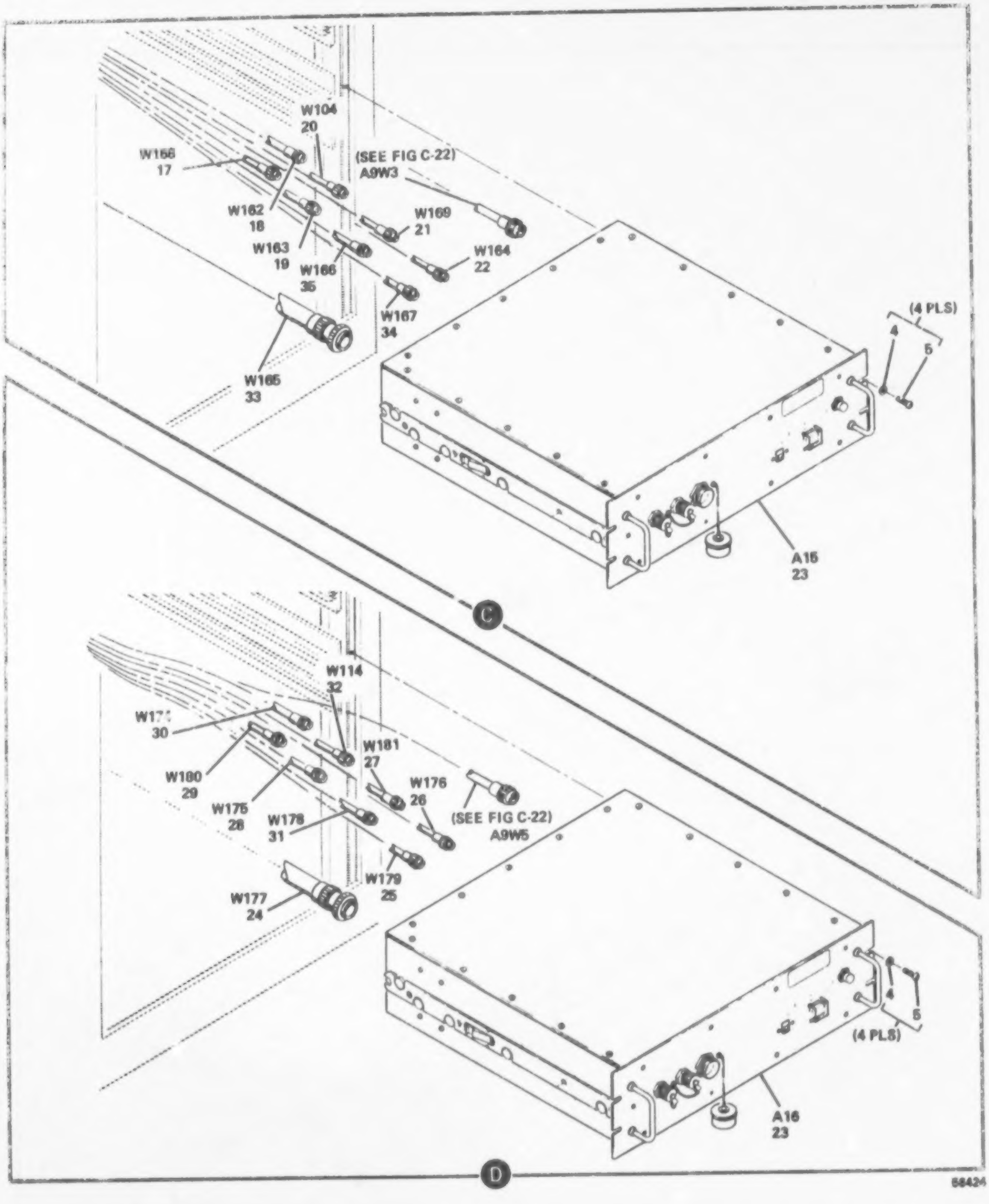


Figure C-10. Jammer Functional Group (Sheet 3 of 13)

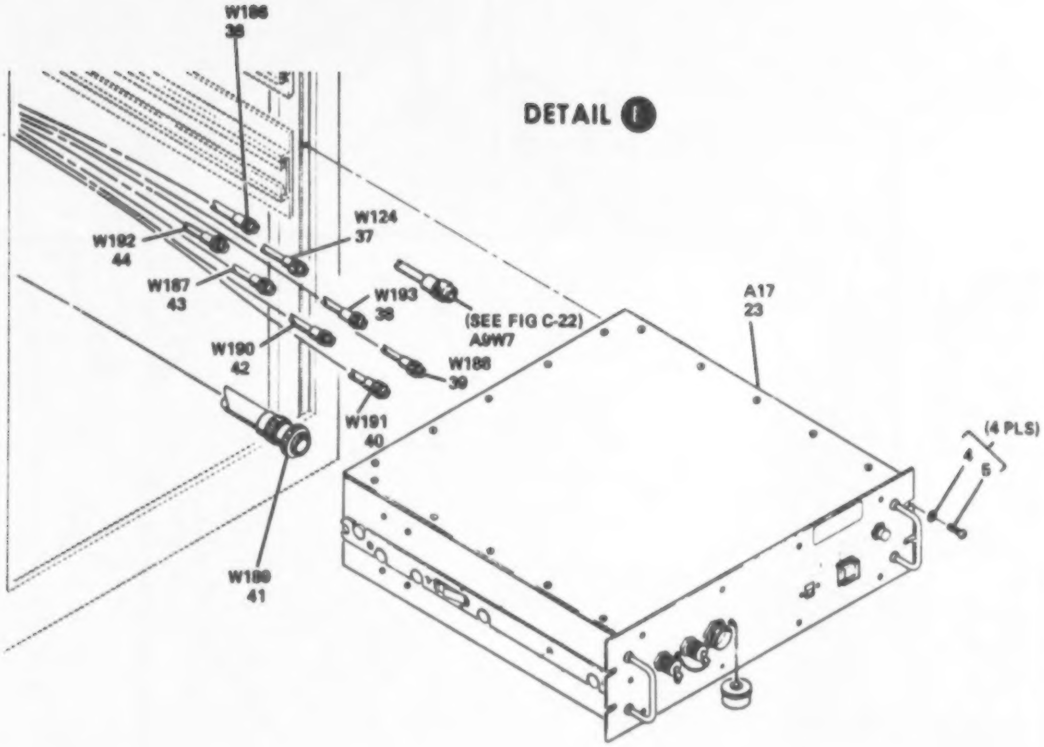


Figure C-10. Jammer Functional Group (Sheet 4 of 13)

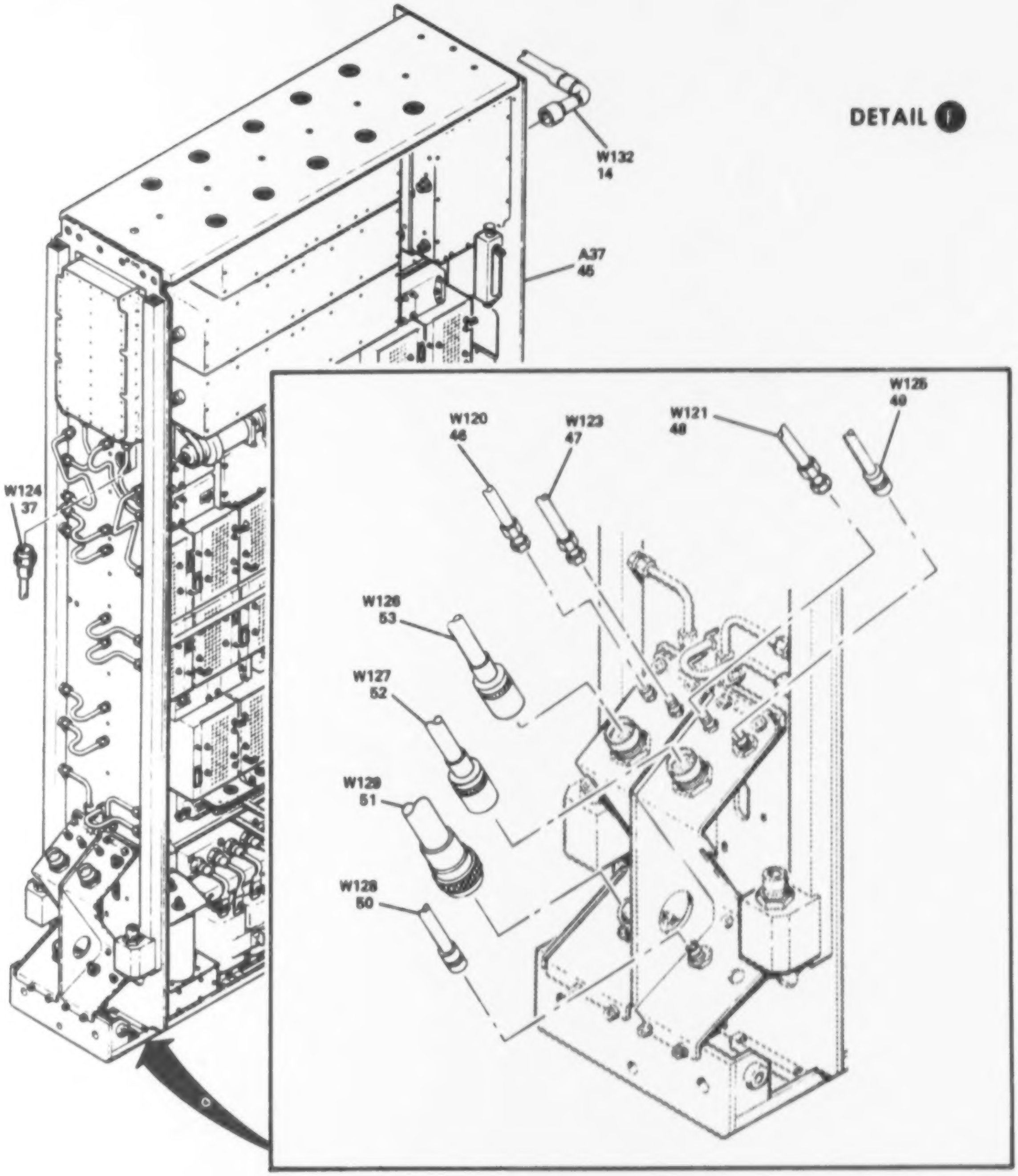


Figure C-10. Jammer Functional Group (Sheet 5 of 13)

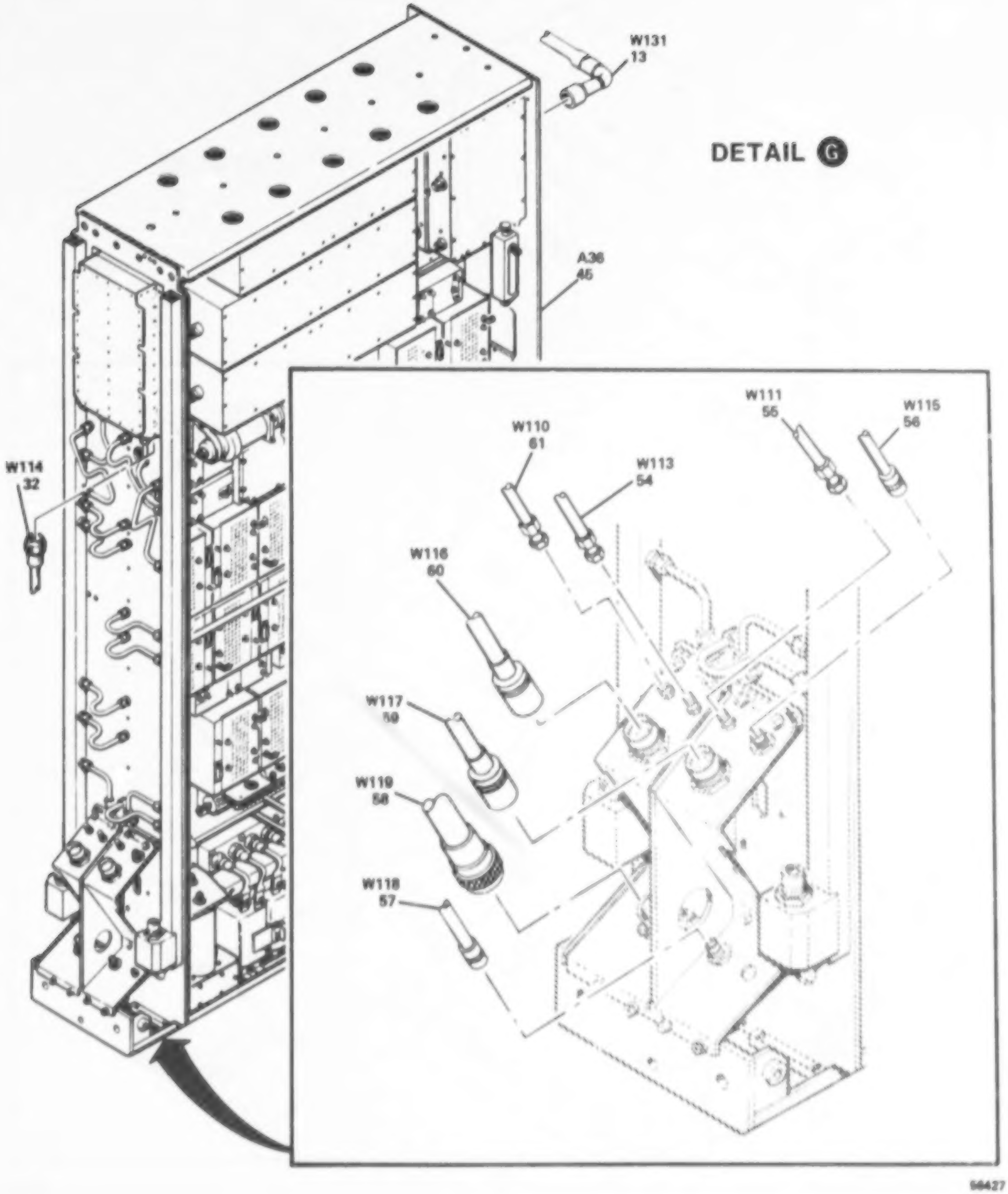


Figure C-10. Jammer Functional Group (Sheet 6 of 13)

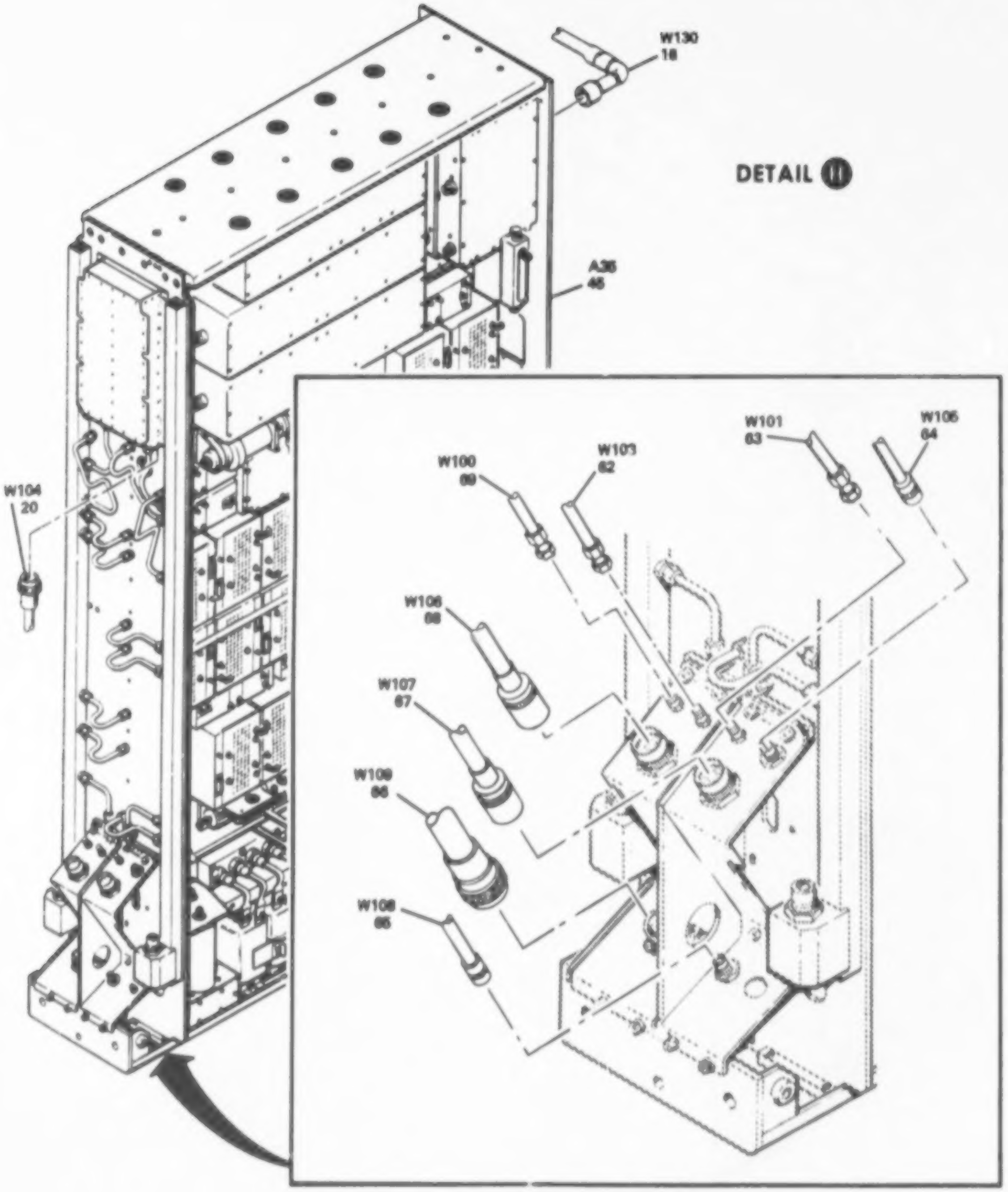


Figure C-10. Jammer Functional Group (Sheet 7 of 13)

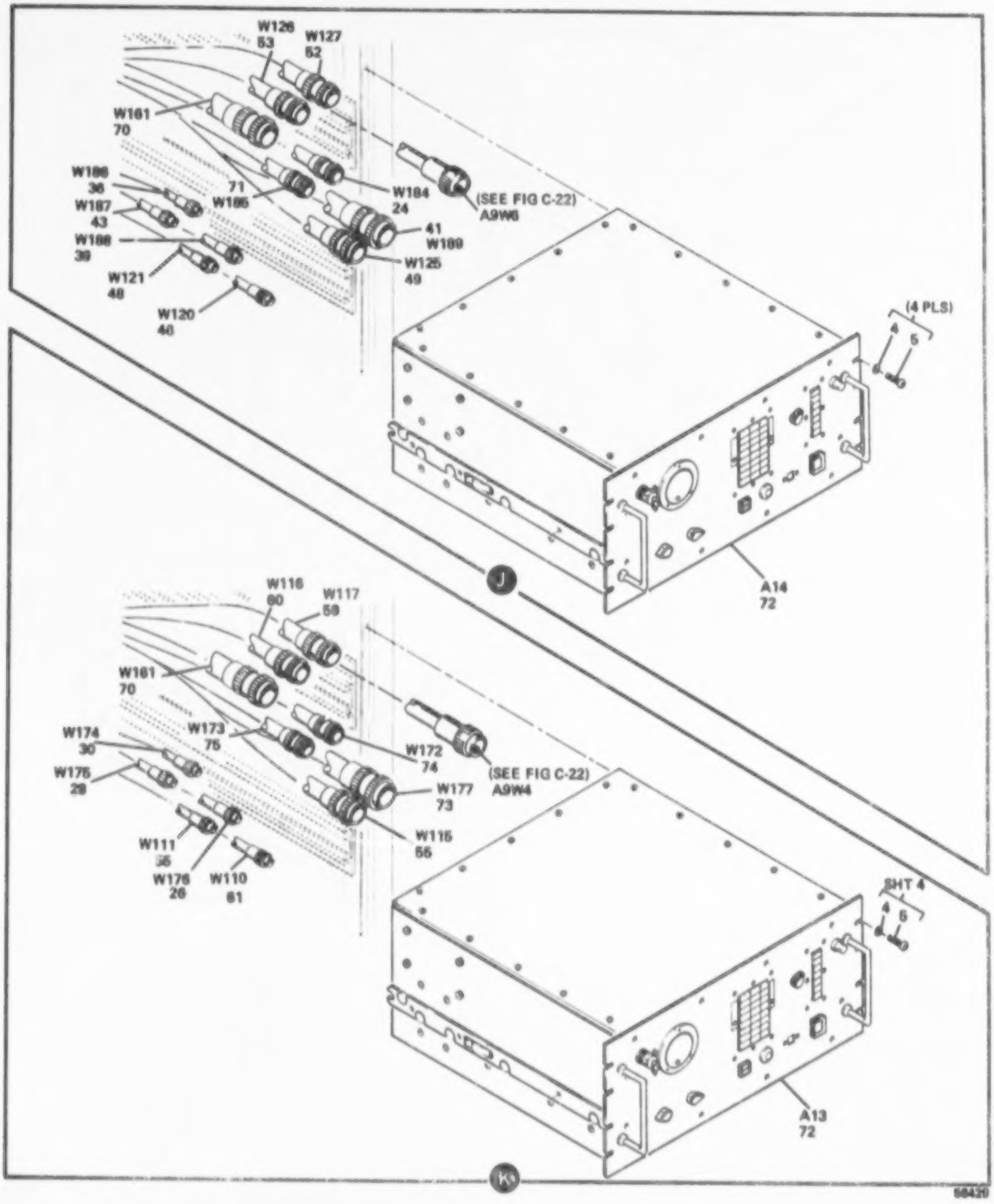


Figure C-10. Jammer Functional Group (Sheet 8 of 13)

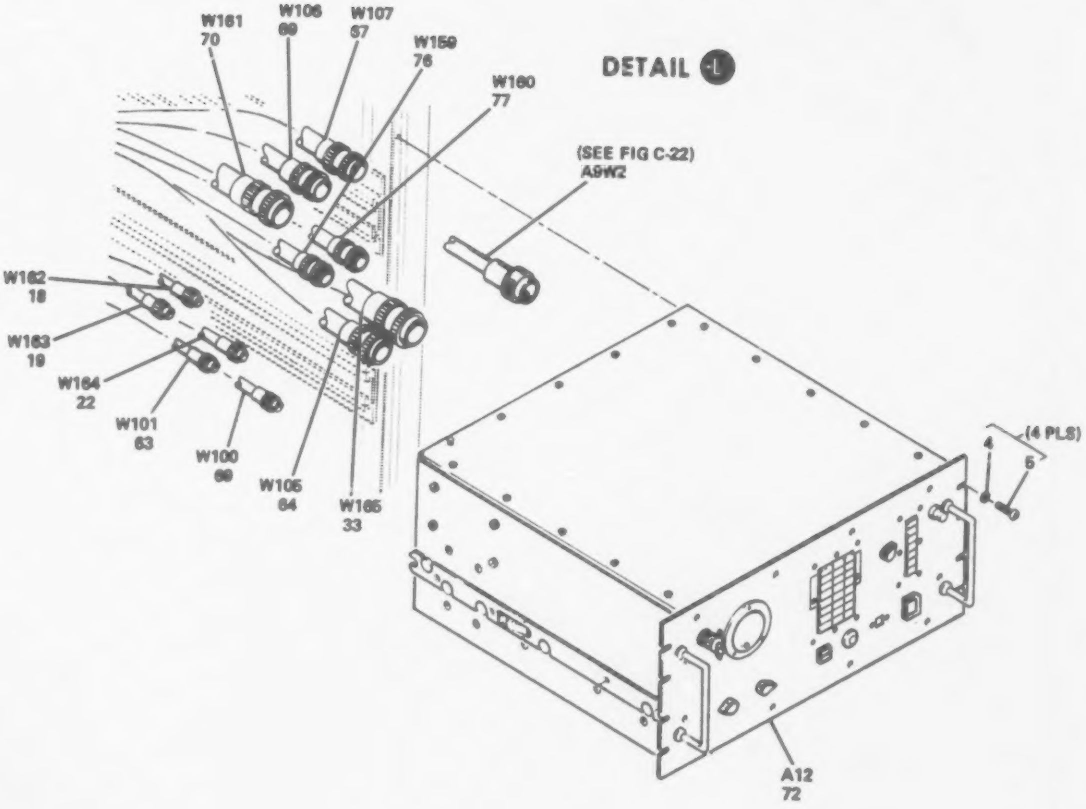


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Figure C-10. Jammer Functional Group (Sheet 9 of 13)

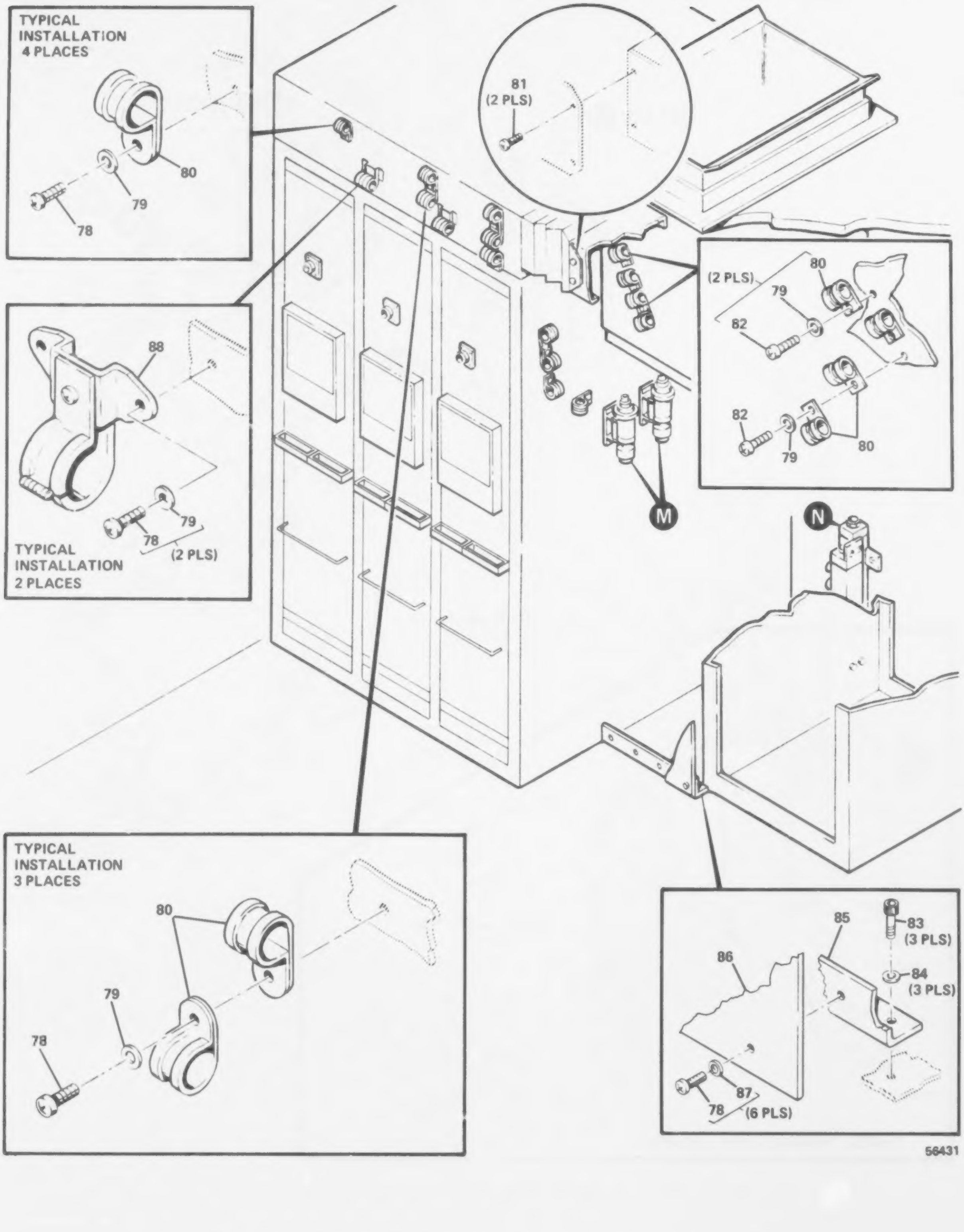

Figure C-10. Jammer Functional Group (Sheet 10 of 13)

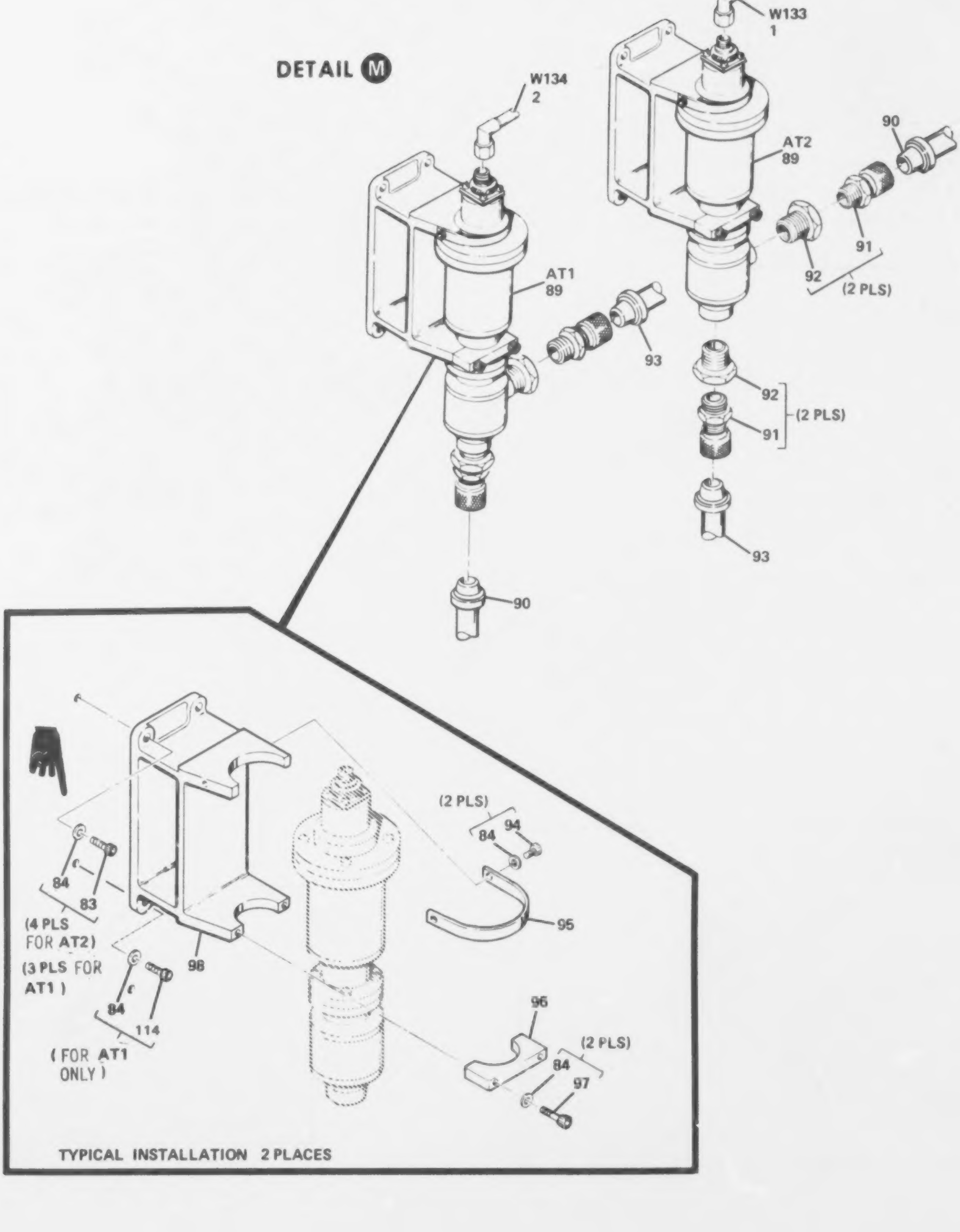

Figure C-10. Jammer Functional Group (Sheet 11 of 13)

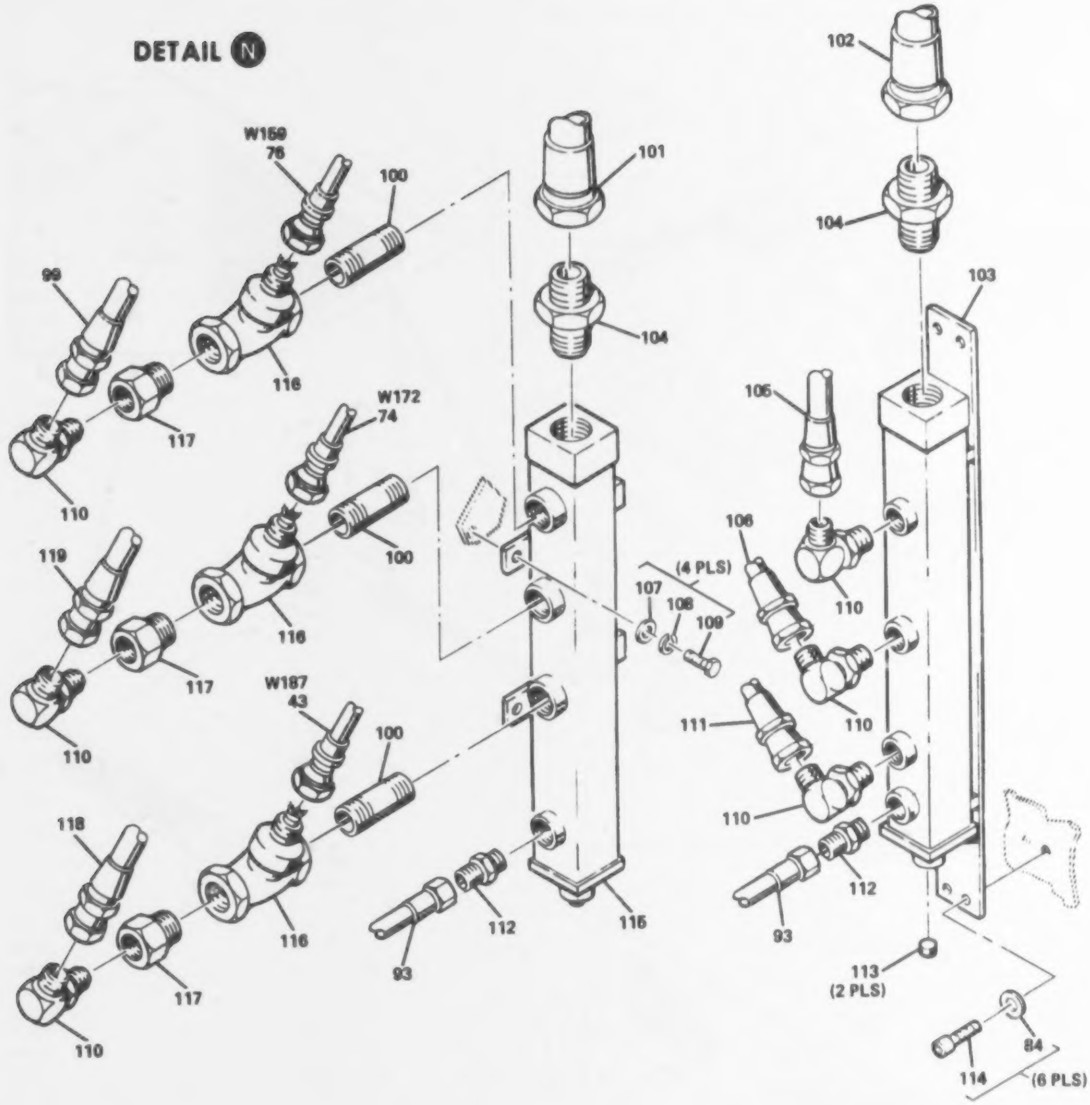

Figure C-10. Jammer Functional Group (Sheet 12 of 13)

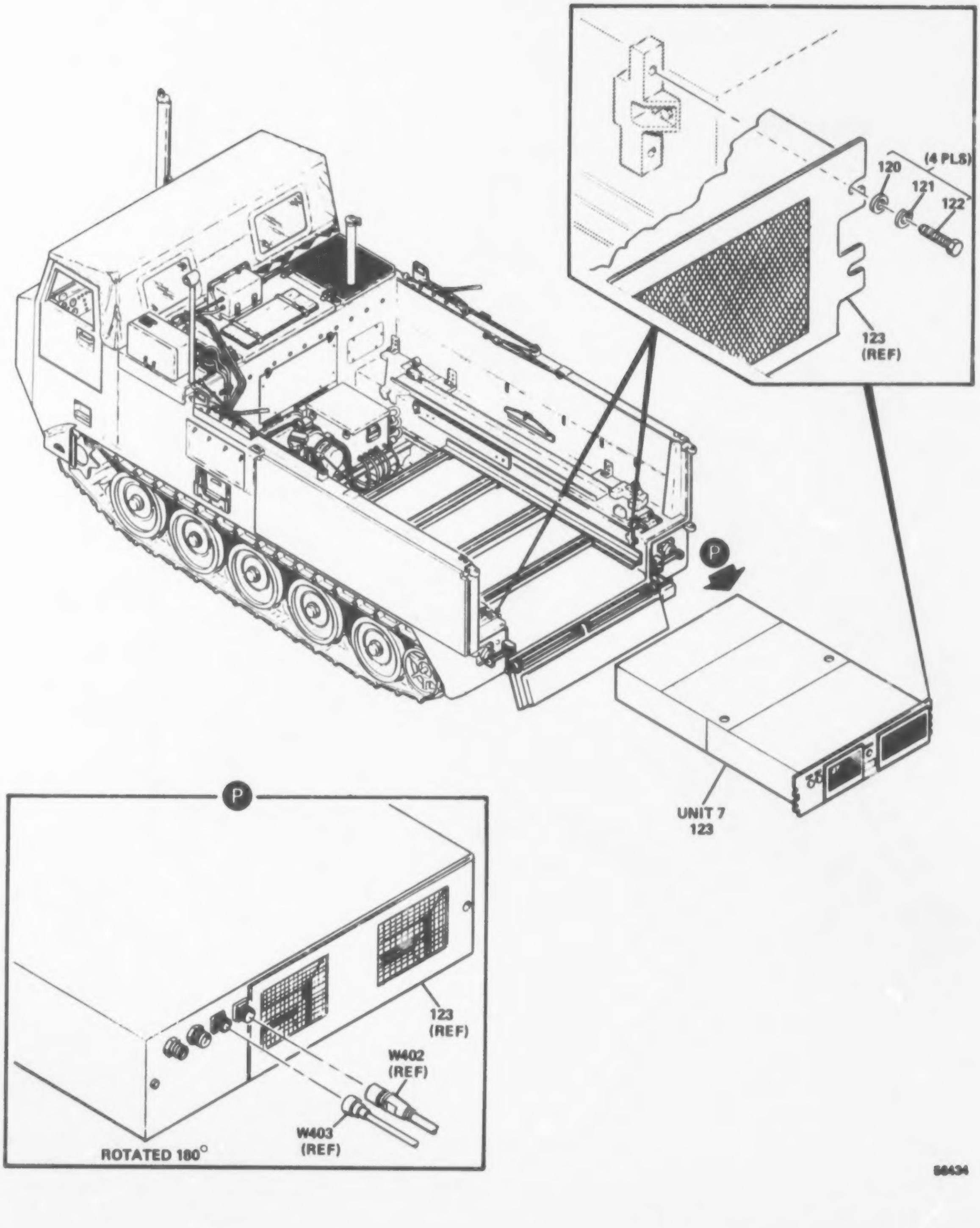

Figure C-10. Jammer Functional Group (Sheet 13 of 13)

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 0103 JAMMER FUNCTIONAL GROUP		
C-10	1	XBDDD		C5077395-133	57958	CABLE ASSY,RF	EA	1
C-10	2	XBDDD		C5077395-134	57958	CABLE ASSY,RF	EA	1
C-10	3	PDOZZ	5865-01-109-1664	5054808-1	57958	CMBDR,MODE CPLR	EA	1
C-10	4	PAFZZ	5970-01-141-5254	5054678-1	57958	INSULATOR,WSHR	EA	36
C-10	5	PAFZZ	5305-00-926-5532	5054677-1	57958	SCREW,MACHINE	EA	36
C-10	6	XBDDD		C5077396-157	57958	CABLE ASSY,RF	EA	1
C-10	7	XBDDD		C5077396-156	57958	CABLE ASSY,RF	EA	1
C-10	8	XBDDD		C5077396-155	57958	CABLE ASSY,RF	EA	1
C-10	9	XBDDD		C5077396-152	57958	CABLE ASSY,RF	EA	1
C-10	10	XBDDD		C5077396-153	57958	CABLE ASSY,RF	EA	1
C-10	11	XBDDD		C5077396-154	57958	CABLE ASSY,RF	EA	1
C-10	12	PDOHD	5865-01-109-1691	5051530-1	57958	SW UNIT,AUTO M	EA	1
C-10	13	XBDDD		C5077394-131	57958	CABLE ASSY,RF	EA	1
C-10	14	XBDDD		C5077394-132	57958	CABLE ASSY,RF	EA	1
C-10	15	XBDDD		C5077395-150	57958	CABLE ASSY,RF	EA	1
C-10	16	XBDDD		C5077394-130	57958	CABLE ASSY,RF	EA	1
C-10	17	XBDDD		5053206-168	57958	CABLE ASSY,RF	EA	1
C-10	18	XBDDD		5053206-162	57958	CABLE ASSY,RF	EA	1
C-10	19	XBDDD		5053206-163	57958	CABLE ASSY,RF	EA	1
C-10	20	XBDDD		5053206-104	57958	CABLE ASSY,RF	EA	1
C-10	21	XBDDD		5053206-169	57958	CABLE ASSY,RF	EA	1
C-10	22	XBDDD		5053206-164	57958	CABLE ASSY,RF	EA	1
C-10	23	PDFHD	5865-01-109-1692	5051560-1	57958	EXCITER	EA	3
C-10	24	PAFZZ		C5077390-184	57958	CABLE ASSY,SP	EA	1
C-10	25	XBDDD		5053206-179	57958	CABLE ASSY,RF	EA	1
C-10	26	XBDDD		5053206-176	57958	CABLE ASSY,RF	EA	1
C-10	27	XBDDD		5053206-181	57958	CABLE ASSY,RF	EA	1
C-10	28	XBDDD		5053206-175	57958	CABLE ASSY,RF	EA	1
C-10	29	XBDDD		5053206-180	57958	CABLE ASSY,RF	EA	1
C-10	30	XBDDD		5053206-174	57958	CABLE ASSY,RF	EA	1
C-10	31	XBDDD		5053206-178	57958	CABLE ASSY,RF	EA	1
C-10	32	XBDDD		5053206-114	57958	CABLE ASSY,RF	EA	1
C-10	33	XBDDD		5053205-165	57958	CABLE ASSY,SP	EA	1
C-10	34	XBDDD		5053206-167	57958	CABLE ASSY,RF	EA	1
C-10	35	XBDDD		5053206-166	57958	CABLE ASSY,RF	EA	1
C-10	36	XBDDD		5053206-186	57958	CABLE ASSY,RF	EA	1
C-10	37	XBDDD		5053206-124	57958	CABLE ASSY,RF	EA	1
C-10	38	XBDDD		5053206-193	57958	CABLE ASSY,RF	EA	1
C-10	39	XBDDD		5053206-188	57958	CABLE ASSY,RF	EA	1
C-10	40	XBDDD		5053206-191	57958	CABLE ASSY,RF	EA	1
C-10	41	XBDDD		5053205-189	57958	CABLE ASSY,SP	EA	1
C-10	42	XBDDD		5053206-190	57958	CABLE ASSY,RF	EA	1
C-10	43	XBDDD		5053206-187	57958	CABLE ASSY,RF	EA	1
C-10	44	XBDDD		5053206-192	57958	CABLE ASSY,RF	EA	1
C-10	45	PDFHD	5865-01-109-1701	5051520-1	57958	XMTR,CW	EA	3
C-10	46	XBDDD		5053206-120	57958	CABLE ASSY,RF	EA	1
C-10	47	XBDDD		5053206-123	57958	CABLE ASSY,RF	EA	1
C-10	48	XBDDD		5053206-121	57958	CABLE ASSY,RF	EA	1
C-10	49	XBDDD		5053205-125	57958	CABLE ASSY,SP	EA	1
C-10	50	XBDDD		5053205-128	57958	CABLE ASSY,SP	EA	1
C-10	51	XBDDD		C5077380-129	57958	CABLE ASSY,SP	EA	1
C-10	52	XBDDD		5053205-127	57958	CABLE ASSY,SP	EA	1
C-10	53	XBDDD		5053205-126	57958	CABLE ASSY,SP	EA	1
C-10	54	XBDDD		5053206-113	57958	CABLE ASSY,RF	EA	1
C-10	55	XBDDD		5053206-111	57958	CABLE ASSY,RF	EA	1

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
C-10	56	XBDDD		5053205-115	57958	CABLE ASSY,SP	EA	1
C-10	57	XBDDD		5053205-118	57958	CABLE ASSY,SP	EA	1
C-10	58	XBDDD		C5077380-119	57958	CABLE ASSY,SP	EA	1
C-10	59	XBDDD		5053205-117	57958	CABLE ASSY,SP	EA	1
C-10	60	XBDDD		5053205-116	57958	CABLE ASSY,SP	EA	1
C-10	61	XBDDD		5053206-110	57958	CABLE ASSY,RF	EA	1
C-10	62	XBDDD		5053206-103	57958	CABLE ASSY,RF	EA	1
C-10	63	XBDDD		5053206-101	57958	CABLE ASSY,RF	EA	1
C-10	64	XBDDD		5053205-105	57958	CABLE ASSY,SP	EA	1
C-10	65	XBDDD		5053205-108	57958	CABLE ASSY,SP	EA	1
C-10	66	XBDDD		C5077380-109	57958	CABLE ASSY,SP	EA	1
C-10	67	XBDDD		5053205-107	57958	CABLE ASSY,SP	EA	1
C-10	68	XBDDD		5053205-106	57958	CABLE ASSY,SP	EA	1
C-10	69	XBDDD		5053206-100	57958	CABLE ASSY,RF	EA	1
C-10	70	XBHHH		C5077401-1	57958	CABLE ASSY, SP	EA	1
C-10	71	XBDDD		5053205-185	57958	CABLE ASSY,SP	EA	1
C-10	72	PDFHD	5865-01-109-1702	5051550-1	57958	CONTROL,AMPL	EA	3
C-10	73	XBDDD		5053205-177	57958	CABLE ASSY,SP	EA	1
C-10	74	PAFZZ		C5077390-172	57958	CABLE ASSY,SP	EA	1
C-10	75	XBDDD		5053205-173	57958	CABLE ASSY,SP	EA	1
C-10	76	PAFZZ		C5077390-159	57958	CABLE ASSY,SP	EA	1
C-10	77	XBDDD		5053205-160	57958	CABLE ASSY,SP	EA	1
C-10	78	PAFZZ	5305-00-059-3660	MS51958-64	96906	SCR,MACH,PAN HD	EA	15
C-10	79	PAFZZ	5310-00-933-8120	MS35338-138	96906	WASHER,LOCK	EA	12
C-10	80	PAFZZ	5340-01-120-8267	M85052/1-8	81349	CLAMP,LOOP	EA	14
C-10	81	PAFZZ	5305-00-059-3661	MS51958-65	96906	SCR,MACH,PAN HD	EA	2
C-10	82	PAFZZ	5305-00-059-3657	MS51958-61	96906	SCR,MACH,PAN HD	EA	3
C-10	83	PAFZZ	5305-00-076-0213	NAS1351C3-10	80205	SCR,CAP,SKT HD	EA	14
C-10	84	PAFZZ	5310-00-595-6772	MS15795-808	96906	WASHER,FLAT	EA	17
C-10	85	XBFFF		C5077102-1	57958	RETAINER,PANEL	EA	1
C-10	86	XBFZZ		C5077103-1	57958	PANEL,ACCESS	EA	1
C-10	87	PAFZZ	5310-00-167-0765	AN970-3	88044	WASHER,FLAT	EA	6
C-10	88	PAFZZ		5054280-1	57958	CLAMP,LOOP	EA	2
C-10	89	PAFZZ	5985-01-141-4321	5054878-1	57958	DUMMY LOAD,ELEC	EA	2
C-10	90	PAFZZ		5052268-2	57958	HOSE ASSY,NM	EA	1
C-10	91	PAFZZ	4730-01-141-7173	5054911-4	57958	CPLG HALF,QDISC	EA	4
C-10	92	PAFZZ	4730-00-959-3819	AN912-4K	88044	BUSHING,PIPE	EA	4
C-10	93	PAFZZ		5052229-2	57958	HOSE ASSY,NM	EA	2
C-10	94	PAFZZ		NAS1351C3-4	80205	SCR,CAP,SKT HD	EA	4
C-10	95	XBFZZ		C5077146-1	57958	STRAP,DUM LOAD	EA	2
C-10	96	XBFZZ		0108-1-3063-1	57958	CLAMP,DUM LOAD	EA	2
C-10	97	PAFZZ	5305-00-140-0253	NAS1351C3-20	80205	SCR,CAP,SKT HD	EA	4
C-10	98	XBFFF		5051779-1	57958	BRKT,DUMMY LOAD	EA	2
C-10	99	PAFZZ		5052228-4	57958	HOSE ASSY,NM	EA	1
C-10	100	PAFZZ	4730-00-196-1469	MS51953-121	96906	NIPPLE,PIPE	FT	3
C-10	101	PAFZZ		5052227-2	57958	HOSE ASSY,NM	EA	1
C-10	102	PAFZZ		5052227-1	57958	HOSE ASSY,NM	EA	1
C-10	103	PAFZZ		C5077131-1	57958	MANIFOLD,COOL	EA	1
C-10	104	PAFZZ		5054548-1	57958	ADPTR,PIPE-TUBE	EA	2
C-10	105	PAFZZ		5052228-1	57958	HOSE ASSY,NM	EA	1
C-10	106	PAFZZ		5052228-2	57958	HOSE ASSY,NM	EA	1
C-10	107	PAFZZ	5310-00-582-5677	MS15795-810	96906	WASHER,FLAT	EA	4
C-10	108	PAFZZ	5310-00-933-8121	MS35338-139	96906	WASHER,LOCK	EA	4
C-10	109	PAFZZ	5305-00-071-2241	MS90725-10	96906	SCR,CAP,HEX HD	EA	4
C-10	110	PAFZZ		5054534-1	57958	ELBOW,PIPE-TUBE	EA	6
C-10	111	PAFZZ		5052228-3	57958	HOSE ASSY,NM	EA	1

SECTION II REPAIR PARTS LIST

	(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
	(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
	C-10	112	PAFZZ	4730-00-196-9584	AN816-6-6D	88044	ADPTR,PIPE-TUBE	EA	2
	C-10	113	PAFZZ	4730-00-954-1281	MS-9005-4	96906	PLUG,PIPE	EA	2
C	C-10	114	PAFZZ	5305-00-788-5487	NAS1351C3-12	80205	SCR,CAP,SKT HD	EA	7
	C-10	115	PAFZZ		5051518-1	57956	MANIFOLD,COOL	EA	1
	C-10	116	PAFZZ		5054974-1	57958	HOUSING,FLOW SW	EA	3
	C-10	117	PAFZZ	4730-00-812-5424	AN912-10J	88044	BUSHING,PIPE	EA	3
	C-10	118	PAFZZ		5052228-6	57958	HOSE ASSY,NM	EA	1
	C-10	119	PAFZZ		5052228-5	57958	HOSE ASSY,NM	EA	1
C	C-10	120	PAFZZ	5310-00-809-5998	MS27183-18	96906	WASHER,FLAT	EA	9
	C-10	121	PAFZZ	5310-00-933-8778	MS35338-143	96906	WASHER,LOCK	EA	4
	C-10	122	PAFZZ	5305-00-782-9495	MS90725-111	96906	SCR,CAP,HEX HD	EA	4
	C-10	123	PDFHD		5052230-2	57958	HEAT EXCHANGER	EA	1

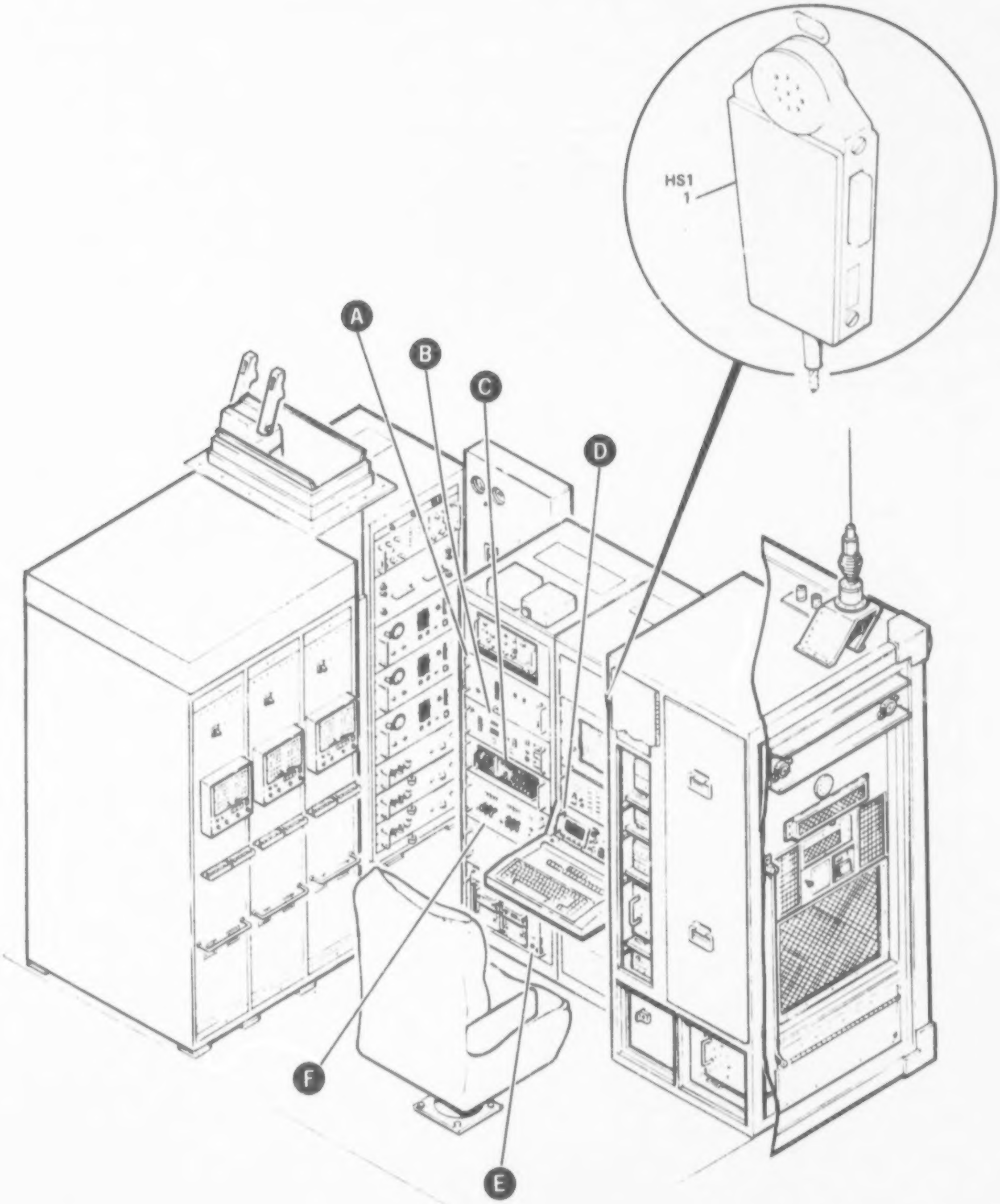

Figure C-11. Receiving and Display Functional Group (Sheet 1 of 6)

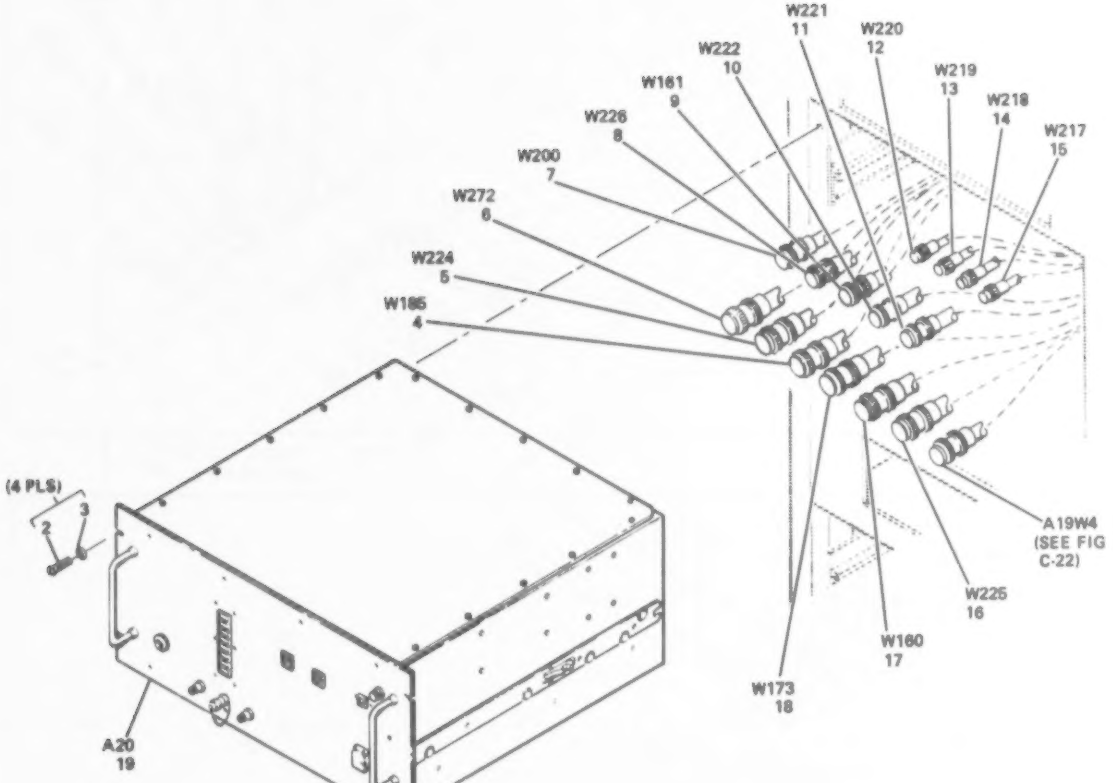

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Figure C-11. Receiving and Display Functional Group (Sheet 2 of 6)

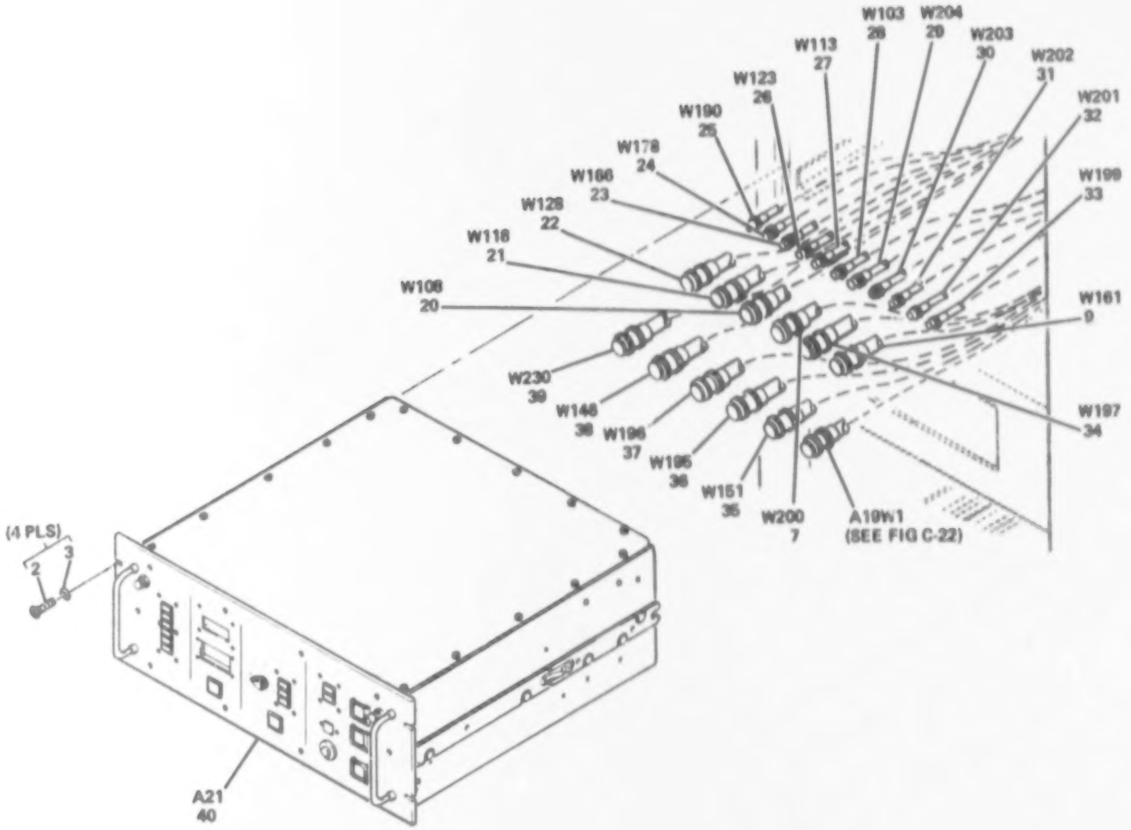

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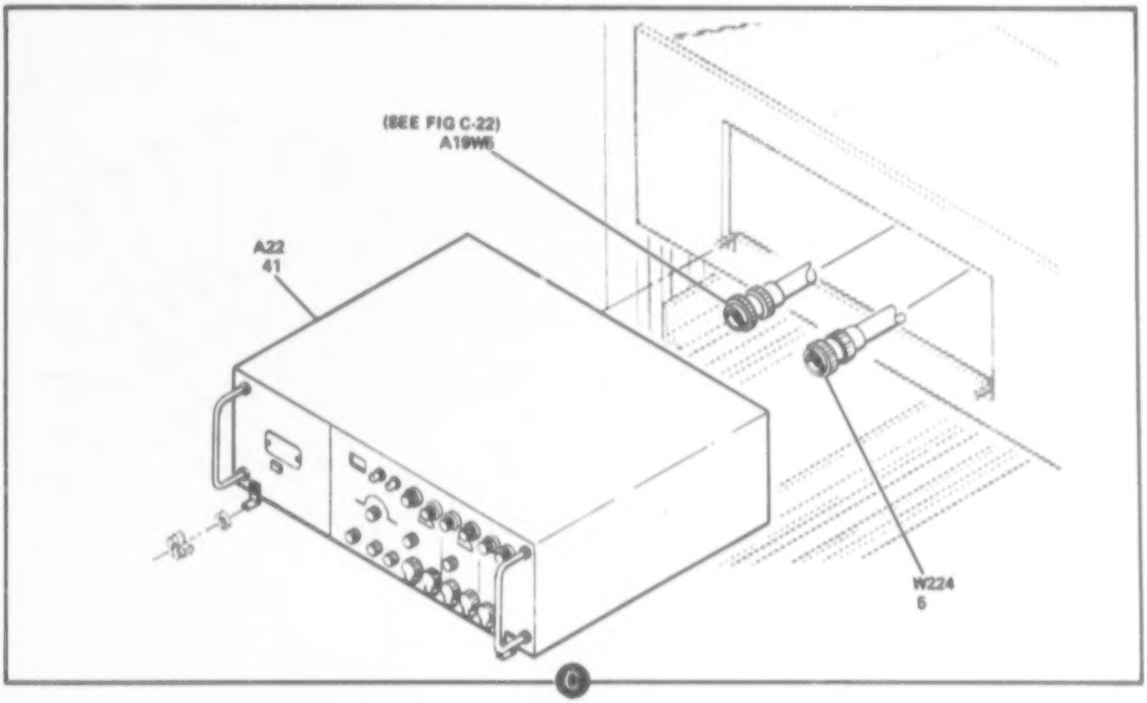
Figure C-11. Receiving and Display Functional Group (Sheet 3 of 6)



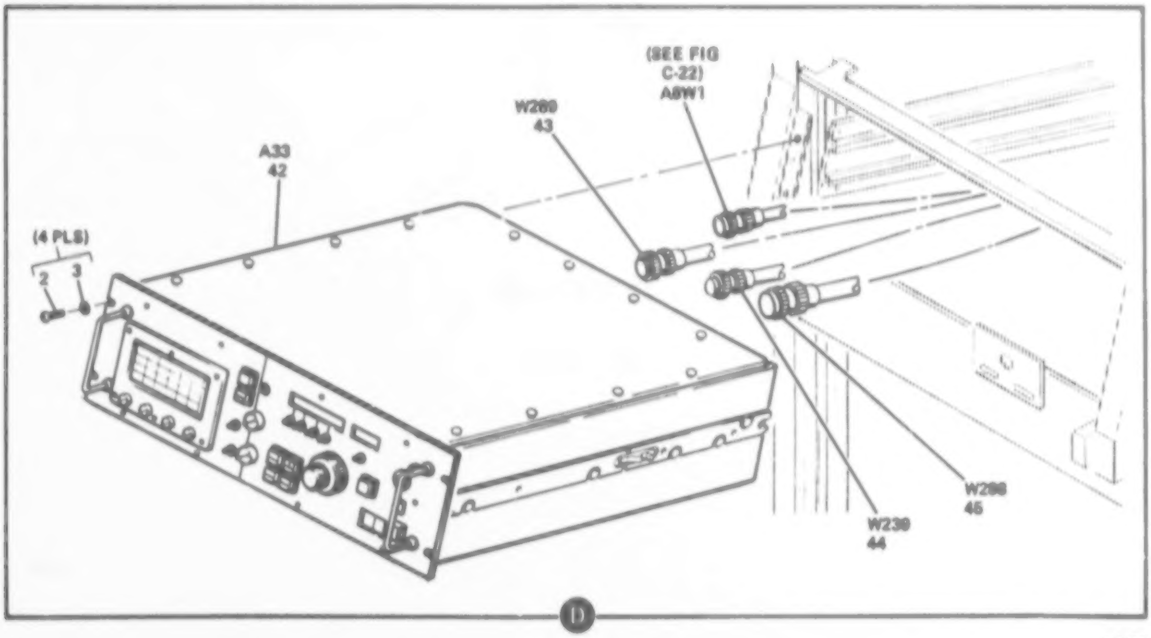


Figure C-11. Receiving and Display Functional Group (Sheet 4 of 6)

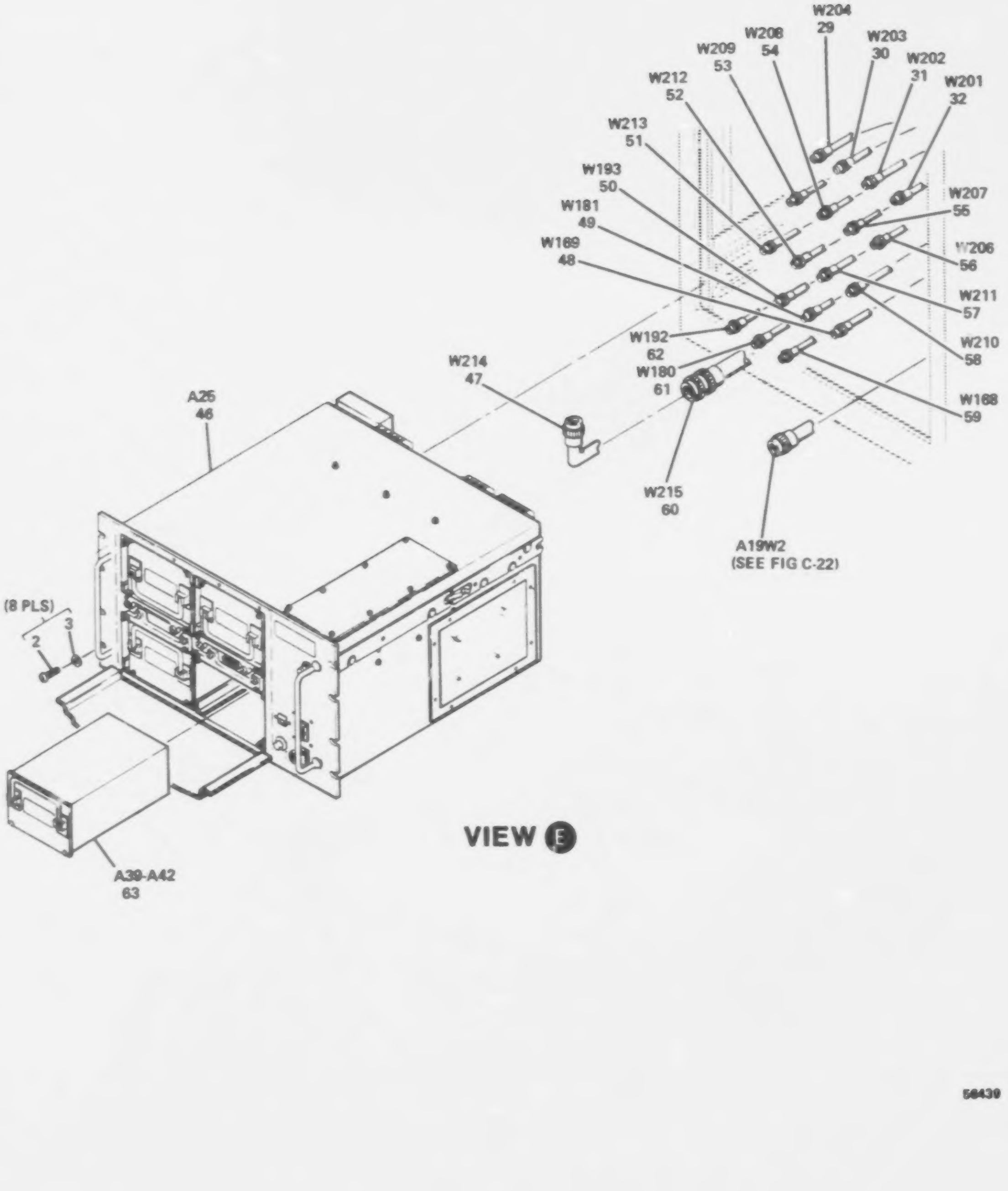


Figure C-11. Receiving and Display Functional Group (Sheet 5 of 6)

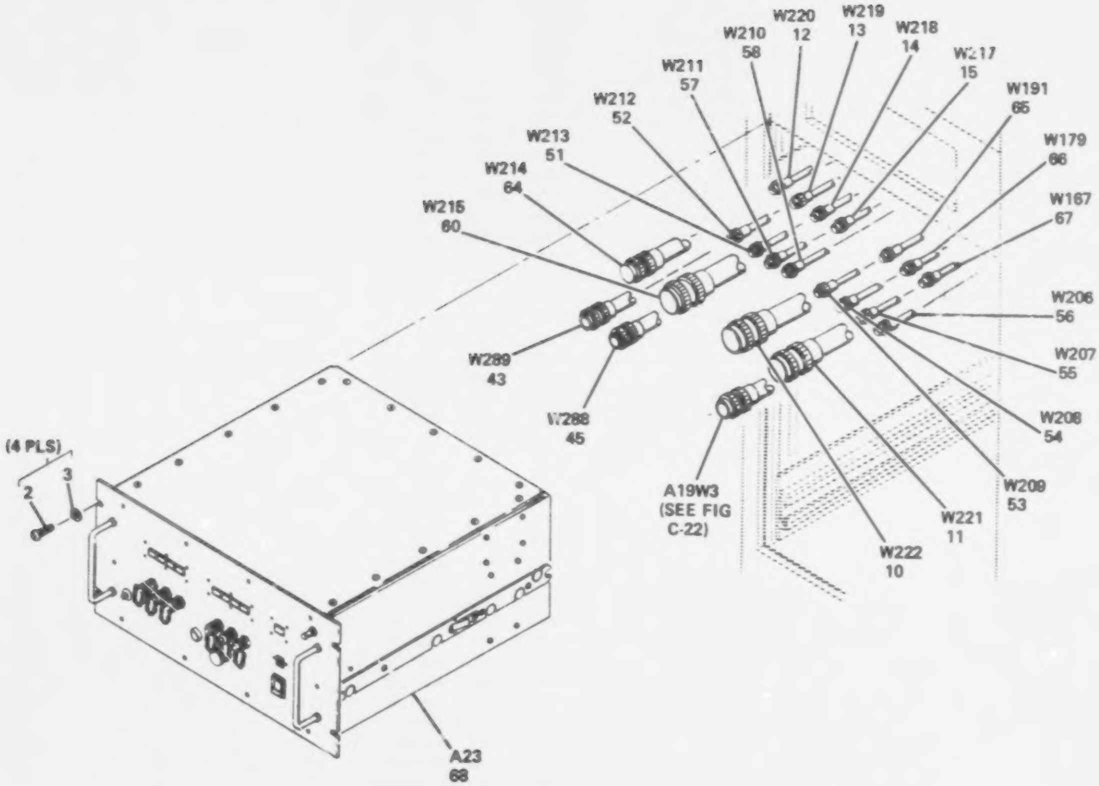


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Figure C-11. Receiving and Display Functional Group (Sheet 6 of 6)

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SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 0104 RECEIVING AND DISPLAY FUNCTIONAL GROUP		
C-11	1	PAOZZ		5054693-1	57958	HEADSET-MIC	EA	1
C-11	2	PAFZZ	5305-00-926-5532	5054677-1	57958	SCREW,MACHINE	EA	24
C-11	3	PAFZZ	5970-01-141-5254	5054678-1	57958	INSULATOR,WSHR	EA	24
C-11	4	XBHHH		5053205-185	57958	CABLE ASSY, SP	EA	1
C-11	5	XBDDD		5053205-224	57958	CABLE ASSY,SP	EA	1
C-11	6	XBDDD		5053205-272	57958	CABLE ASSY,SP	EA	1
C-11	7	XBDDD		5053205-200	57958	CABLE ASSY,SP	EA	1
C-11	8	XBHHH		5053205-226	57958	CABLE ASSY, SP	EA	1
C-11	9	XBHHH		C5077401-1	57958	CABLE ASSY, SP	EA	1
C-11	10	XBDDD		5053205-222	57958	CABLE ASSY,SP	EA	1
C-11	11	XBDDD		5053205-221	57958	CABLE ASSY,SP	EA	1
C-11	12	XBDDD		5053206-220	57958	CABLE ASSY,RF	EA	1
C-11	13	XBDDD		5053206-219	57958	CABLE ASSY,RF	EA	1
C-11	14	XBDDD		5053206-218	57958	CABLE ASSY,RF	EA	1
C-11	15	XBDDD		5053206-217	57958	CABLE ASSY,RF	EA	1
C-11	16	XBHHH		5053205-225	57958	CABLE ASSY, SP	EA	1
C-11	17	XBHHH		5053205-160	57958	CABLE ASSY, SP	EA	1
C-11	18	XBHHH		5053205-173	57958	CABLE ASSY, SP	EA	1
C-11	19	PDFHD	5865-01-109-1687	5051620-1	57958	CONT,SIG INTFC	EA	1
C-11	20	XBHHH		5053205-108	57958	CABLE ASSY, SP	EA	1
C-11	21	XBHHH		5053205-118	57958	CABLE ASSY, SP	EA	1
C-11	22	XBHHH		5053205-128	57958	CABLE ASSY, SP	EA	1
C-11	23	XBHHH		5053206-166	57958	CABLE ASSY, RF	EA	1
C-11	24	XBHHH		5052306-178	57958	CABLE ASSY, RF	EA	1
C-11	25	XBHHH		5053206-190	57958	CABLE ASSY, RF	EA	1
C-11	26	XBHHH		5053206-123	57958	CABLE ASSY, RF	EA	1
C-11	27	XBHHH		5053206-113	57958	CABLE ASSY, RF	EA	1
C-11	28	XBHHH		5053206-103	57958	CABLE ASSY, RF	EA	1
C-11	29	XBDDD		5053206-204	57958	CABLE ASSY,RF	EA	1
C-11	30	XBDDD		5053206-203	57958	CABLE ASSY,RF	EA	1
C-11	31	XBDDD		5053206-202	57958	CABLE ASSY,RF	EA	1
C-11	32	XBDDD		5053206-201	57958	CABLE ASSY,RF	EA	1
C-11	33	XBDDD		C5077376-199	57958	CABLE ASSY,RF	EA	1
C-11	34	XBDDD		5053205-197	57958	CABLE ASSY,SP	EA	1
C-11	35	XBDDD		5053205-151	57958	CABLE ASSY,SP	EA	1
C-11	36	XBDDD		5053205-195	57958	CABLE ASSY,SP	EA	1
C-11	37	XBDDD		5053205-196	57958	CABLE ASSY,SP	EA	1
C-11	38	XBDDD		C5077378-146	57958	CABLE ASSY,SP	EA	1
C-11	39	XBHHH		5053205-230	57958	CABLE ASSY, SP	EA	1
C-11	40	PDFHD	5865-01-109-1690	5051630-1	57958	CONT UNIT,RF	EA	1
C-11	41	PDFHD	5835-00-497-8478	ANUNH17	80058	RCDR-RPDR SET	EA	1
C-11	42	PDOHD	5865-01-109-1683	5051610-1	57958	CONTROL-DISPLAY	EA	1
C-11	43	XBDDD		5053205-289	57958	CABLE ASSY,SP	EA	1
C-11	44	XBHHH		5053205-239	57958	CABLE ASSY, SP	EA	1
C-11	45	XBHHH		C5077400-1	57958	CABLE ASSY, SP	EA	1
C-11	46	PDFHD	5865-01-109-1679	5051640-1	57958	RECEIVER SET	EA	1
C-11	47	XBDDD		5053205-214	57958	CABLE ASSY,SP	EA	1
C-11	48	XBHHH		5053205-169	57958	CABLE ASSY, SP	EA	1
C-11	49	XBHHH		5053206-181	57958	CABLE ASSY, RF	EA	1
C-11	50	XBHHH		5053206-193	57958	CABLE ASSY, RF	EA	1
C-11	51	XBDDD		5053206-213	57958	CABLE ASSY,RF	EA	1
C-11	52	XBDDD		5053206-212	57958	CABLE ASSY,RF	EA	1
C-11	53	XBDDD		5053206-209	57958	CABLE ASSY,RF	EA	1
C-11	54	XBDDD		5053206-208	57958	CABLE ASSY,RF	EA	1
C-11	55	XBDDD		5053206-207	57958	CABLE ASSY,RF	EA	1

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
C-11	56	XBDDD		5053206-206	57958	CABLE ASSY,RF	EA	1
C-11	57	XBDDD		5053206-211	57958	CABLE ASSY,RF	EA	1
C-11	58	XBDDD		5053206-210	57958	CABLE ASSY,RF	EA	1
C-11	59	XBHHH		5053206-168	57956	CABLE ASSY, RF	EA	1
C-11	60	XBDDD		5053205-215	57958	CABLE ASSY,SP	EA	1
C-11	61	XBHHH		5053206-180	57958	CABLE ASSY, RF	EA	1
C-11	62	XBHHH		5053206-192	57958	CABLE ASSY, RF	EA	1
C-11	63	PDFHD		ESR8018	37695	RECEIVER,RADIO	EA	4
C-11	64	XBHHH		5053205-214	57958	CABLE ASSY, SP	EA	1
C-11	65	XBHHH		5053206-191	57958	CABLE ASSY, RF	EA	1
C-11	66	XBHHH		5053206-179	57958	CABLE ASSY, RF	EA	1
C-11	67	XBHHH		5053206-167	57958	CABLE ASSY, RF	EA	1
C-11	68	PDFHD	5865-01-109-1689	5051650-1	57958	PRCSR,SIG DATA	EA	1

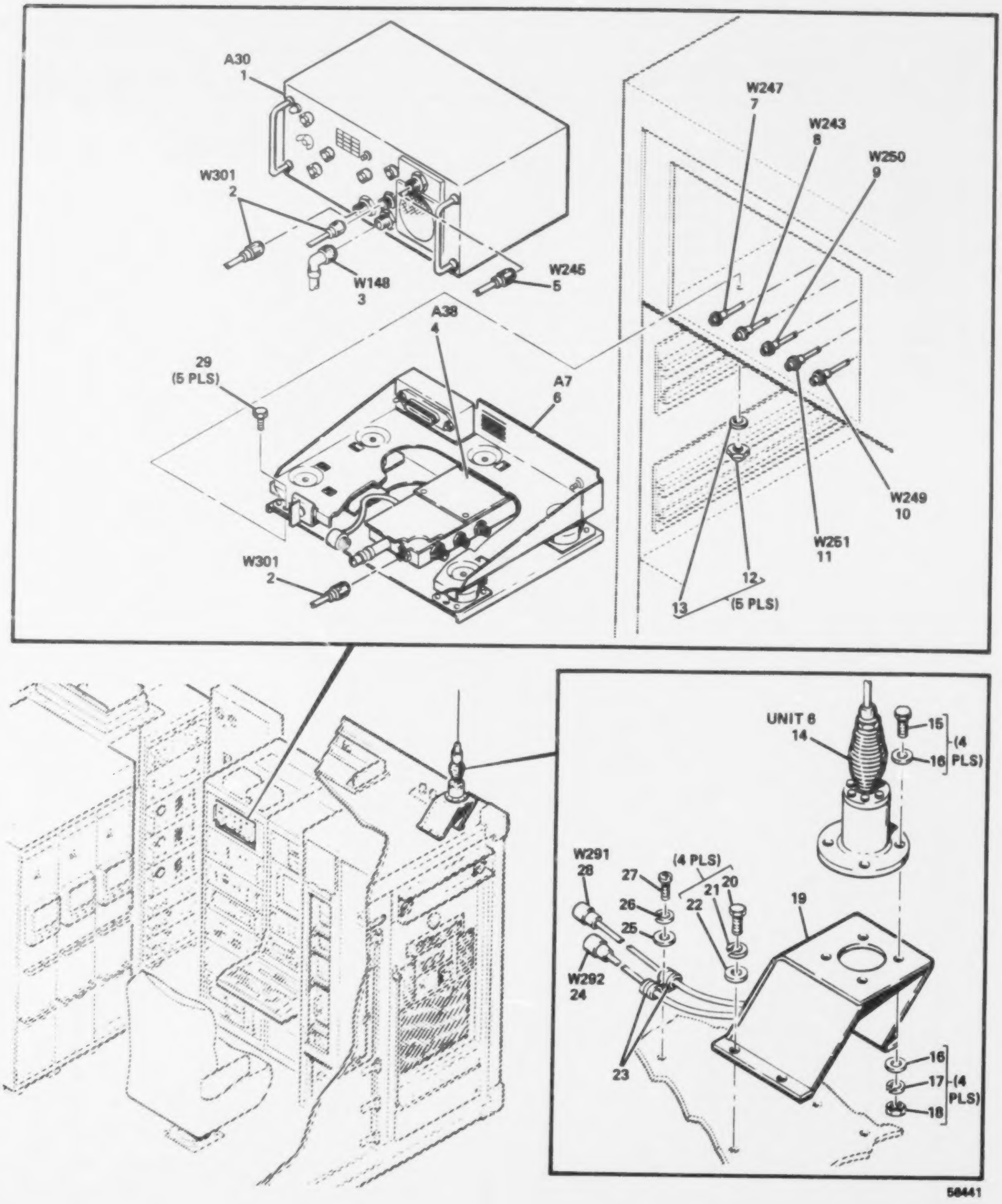


Figure C-12. Voice Communications Functional Group (Sheet 1 of 3)

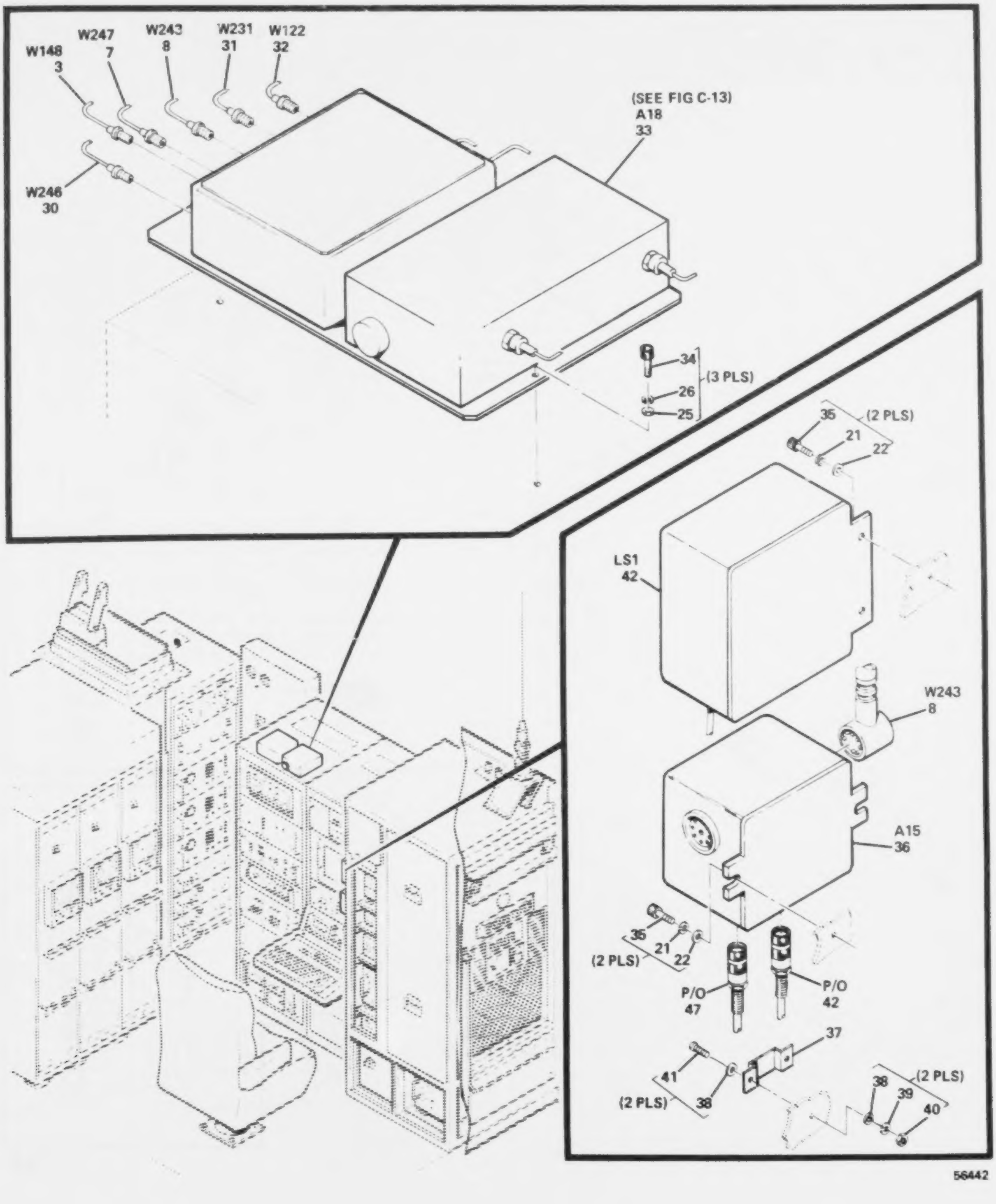


Figure C-12. Voice Communications Functional Group (Sheet 2 of 3)

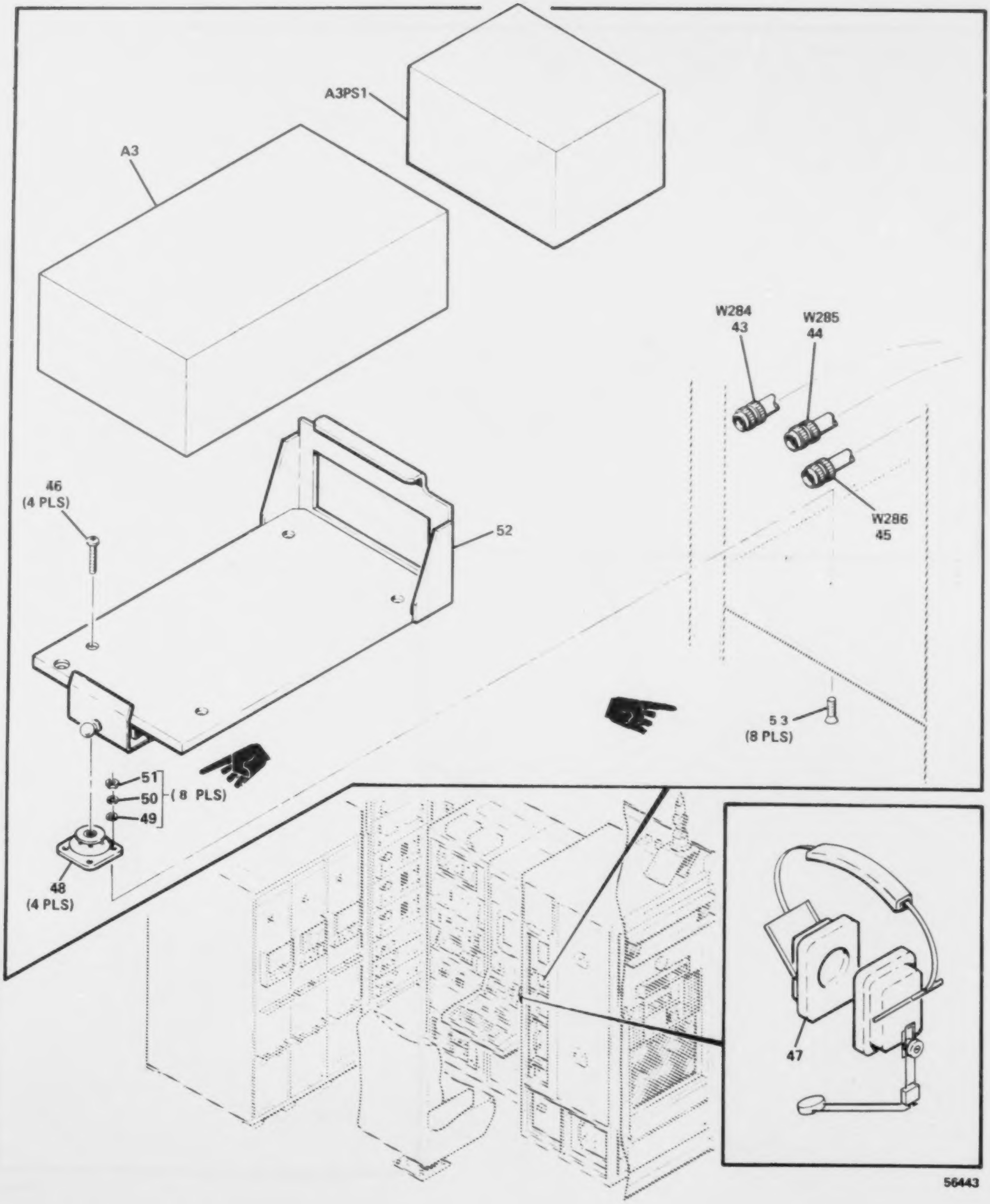
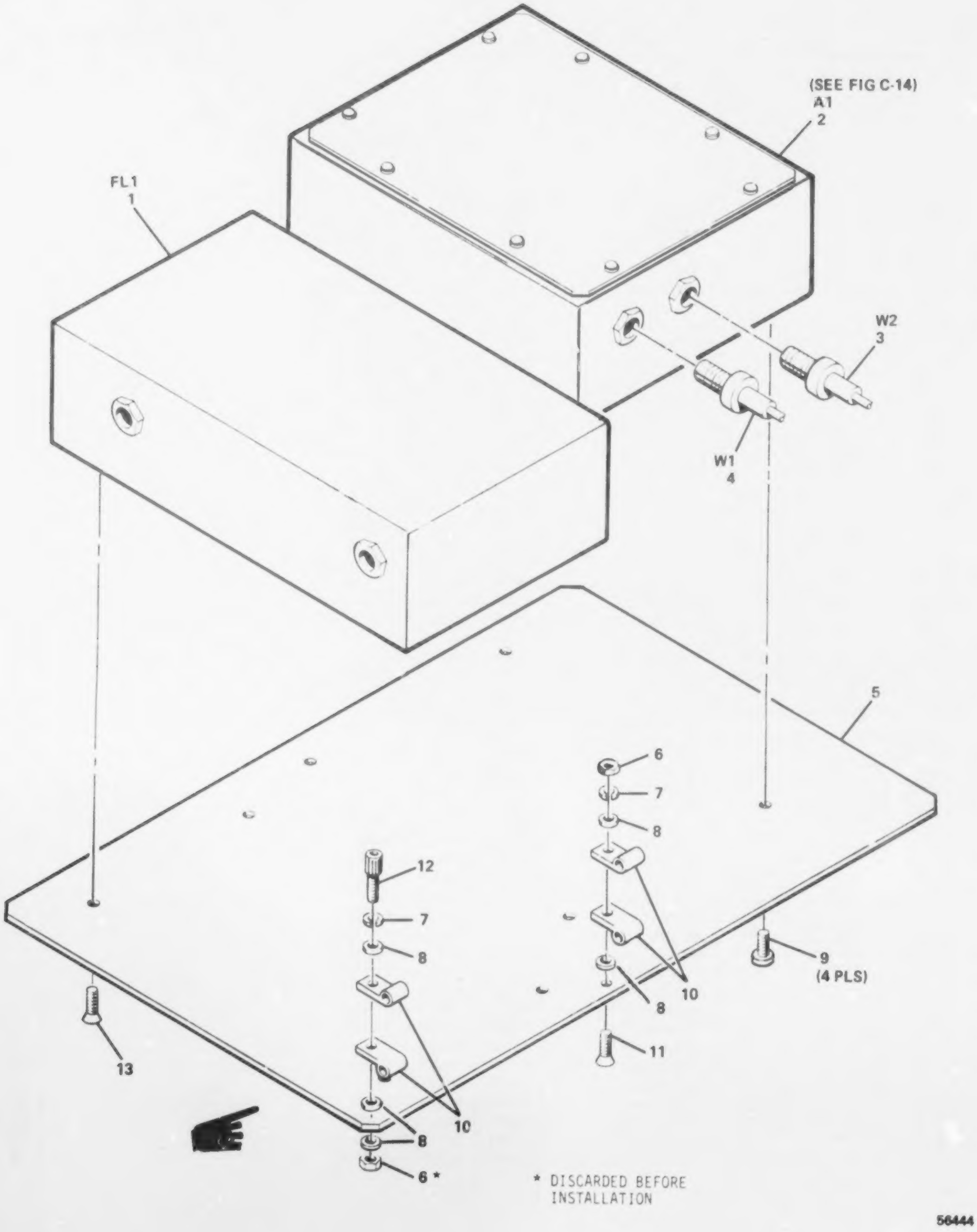


Figure C-12. Voice Communications Functional Group (Sheet 3 of 3)

SECTION II REPAIR PARTS LIST

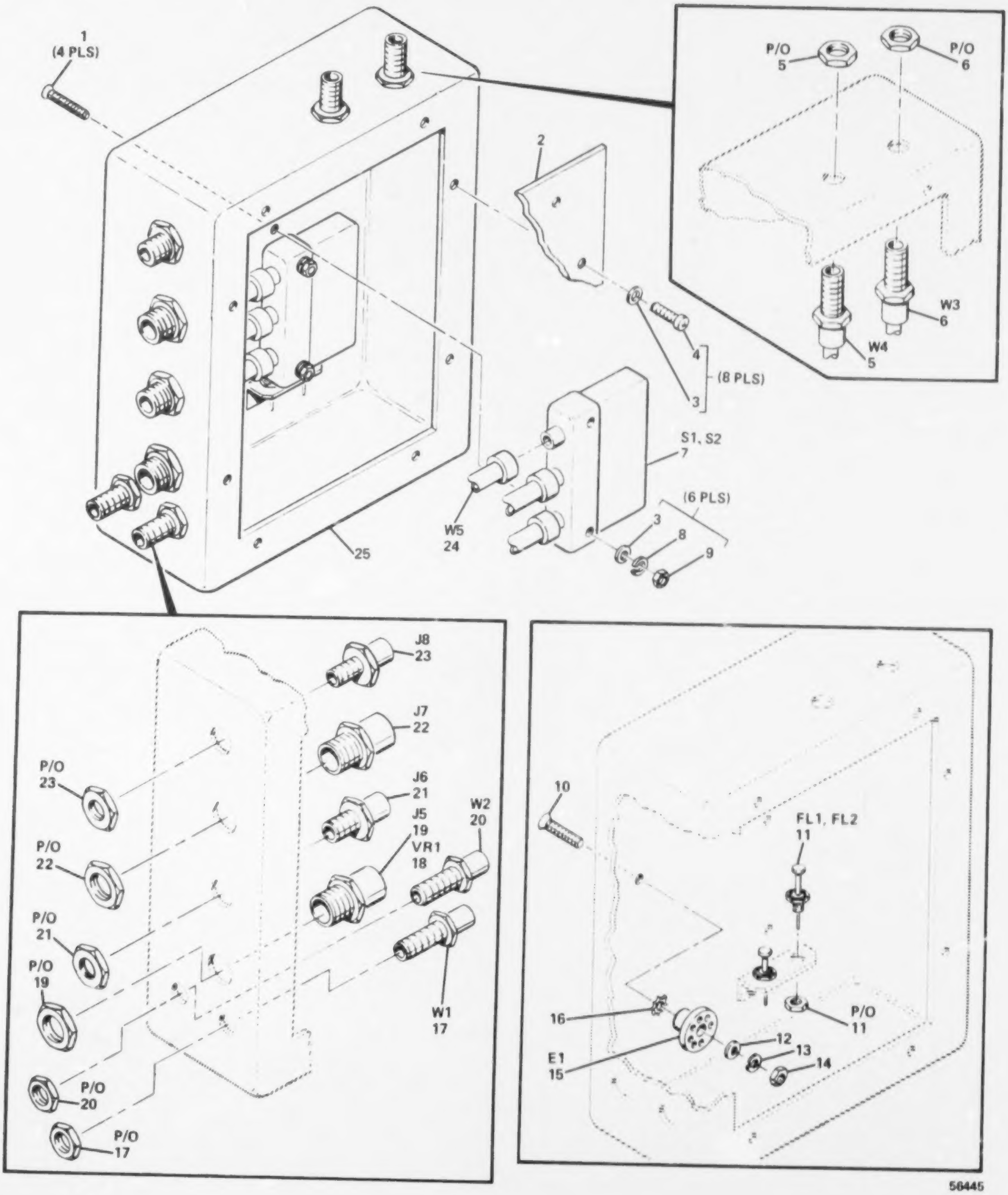
	(1) ILLUS (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
							GROUP 0105 VOICE FUNCTIONAL GROUP		
	C-12	1	PAHZZ		RT524VRC46	80058	RADIO SET	EA	1
	C-12	2	XBDDD		C5075814-301	57958	CABLE ASSY,SP	EA	1
	C-12	3	XBDDD		5053206-148	57958	CABLE ASSY,RF	EA	1
	C-12	4	PDFHD		J-3513/U	80058	INTCON BOX	EA	1
	C-12	5	XBDDD		C5077385-245	57958	CABLE ASSY,SP	EA	1
	C-12	6	XBDZZ	5820-00-893-1323	MT1029VRC	80058	MOUNT,RADIO SET	EA	1
	C-12	7	XBDDD		5053205-247	57958	CABLE ASSY,SP	EA	1
	C-12	8	XBDDD		C5077406-1	57958	WIRING HARNESS	EA	1
	C-12	9	XBDDD		5053205-250	57958	CABLE ASSY,SP	EA	1
	C-12	10	XBDDD		5053205-249	57958	CABLE ASSY,SP	EA	1
	C-12	11	XBDDD		5053205-251	57958	CABLE ASSY,SP	EA	1
	C-12	12	PAFZZ	5310-00-245-8825	MS16228-4C	96906	NUT,SLFLKG,HEX	EA	5
	C-12	13	PAFZZ		NAS620C416L	80205	WASHER,FLAT	EA	5
	C-12	14	PAFZZ	5985-00-985-9024	AS1729VRC	80058	ANTENNA	EA	1
	C-12	15	PAFZZ	5305-00-269-3216	MS90725-66	96906	SCR,CAP,HEX HD	EA	4
C	C-12	16	PAOZZ	5310-00-080-6004	MS27183-14	96906	WASHER,FLAT	EA	9
C	C-12	17	PAFZZ	5310-00-984-7042	MS35338-141	96906	WASHER,LOCK	EA	5
	C-12	18	PAFZZ	5310-00-732-0558	MS51967-8	96906	NUT,PLAIN,HEX	EA	4
	C-12	19	XBFZZ		5053266-1	57958	BRACKET,ANTENNA	EA	1
	C-12	20	PAFZZ	5305-00-068-0502	MS90725-6	96906	SCR,CAP,HEX HD	EA	1
	C-12	21	PAFZZ	5310-00-933-8121	MS35338-139	96906	WASHER,LOCK	EA	5
	C-12	22	PAFZZ	5310-00-582-5677	MS15795-810	96906	WASHER,FLAT	EA	5
	C-12	23	PAFZZ	5340-01-117-2499	M85052/1-6	81349	CLAMP,LOOP	EA	2
	C-12	24	XBDDD		C5077399-292	57958	CABLE ASSY,RF	EA	1
C	C-12	25	PAFZZ	5310-00-595-6772	MS15795-808	96906	WASHER,FLAT	EA	4
C	C-12	26	PAFZZ	5310-00-933-8120	MS35338-138	96906	WASHER,LOCK	EA	4
	C-12	27	PAFZZ	5305-00-059-3665	MS51958-69	96906	SCR,MACH,PAN HD	EA	1
	C-12	28	XBDDD		5053205-291	57958	CABLE ASSY,SP	EA	1
	C-12	29	PAFZZ	5305-00-068-0508	MS90728-6	96906	SCR,CAP,HEX HD	EA	5
	C-12	30	XBDDD		5053206-246	57958	CABLE ASSY,RF	EA	1
	C-12	31	XBHHH		5053205-231	57958	CABLE ASSY, SP	EA	1
	C-12	32	XBDDD		5053205-122	57958	CABLE ASSY,SP	EA	1
	C-12	33	PAFFF		5055567-1	57958	FILTER,RCVR SET	EA	1
C	C-12	34	PAFZZ	5305-00-475-8020	NAS1351C3-16	80205	SCR,CAP,SKT HD	EA	4
	C-12	35	PAHZZ		NAS1352C4-14	80205	SCR,CAP,SKT HD	EA	4
	C-12	36	PDFHD	5820-00-892-3339	C2298VRC	80058	CONT,INTERCOM	EA	1
	C-12	37	PAFZZ		C5077437-1	57958	BRKT,TELEPHONE	EA	1
	C-12	38	PAFZZ	5310-00-722-5998	MS15795-805	96906	WASHER,FLAT	EA	4
	C-12	39	PAFZZ	5310-00-929-6395	MS35338-136	96906	WASHER,LOCK	EA	2
	C-12	40	PAFZZ	5310-00-934-9761	MS35649-264	96906	NUT,PLAIN,HEX	EA	2
	C-12	41	PAFZZ	5305-00-054-6653	MS51957-29	96906	SCR,MACH,PAN HD	EA	2
	C-12	42	PDFHD	5965-00-876-2375	LS454U	81349	LOUDSPEAKER,PM	EA	1
	C-12	43	XBDDD		5053205-284	57958	CABLE ASSY,SP	EA	1
	C-12	44	XBDDD		5053205-285	57958	CABLE ASSY,SP	EA	1
	C-12	45	XBDDD		5053205-286	57958	CABLE ASSY,SP	EA	1
C	C-12	46	PAFZZ		MS24693C50	96906	SCR,MACH,FL HD	EA	8
	C-12	47	PDFHD		H189U	80058	HANDSET	EA	1
	C-12	48	XBFZZ		5054971-1	57958	MOUNT,RESILIENT	EA	4
C	C-12	49	PAFZZ	5310-00-069-5291	NAS620C8	80205	WASHER,FLAT	EA	8
C	C-12	50	PAFZZ	5310-01-067-9589	MS35338-137	96906	WASHER,LOCK	EA	8
C	C-12	51	PAFZZ	5310-00-934-9759	MS35649-284	96906	NUT,PLAIN,HEX	EA	8
	C-12	52	XBFFF		5052373-1	57958	MTG BASE,EQPT	EA	1
N	C-12	53	PAFZZ	5305-00-088-9666	MS24693-C51	81349	SCR,MACH,FLAT HD	EA	8



PREFIX ALL REFERENCE DESIGNATIONS WITH: A18
Figure C-13. Filter, Receiver Set 5055567-1

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 010507 FILTER,RECEIVER SET (57958) 5055567-1		
C-13	1	PAFZZ		5054525-1	57958	FILTER,BANDPASS	EA	1
C-13	2	PAFFF		5055275-1	57958	CONT,VOICE FLTR	EA	1
C-13	3	XBFFF		5055570-2	57958	CABLE ASSY,SP	EA	1
C-13	4	XBFFF		5055570-1	57958	CABLE ASSY,SP	EA	1
C-13	5	XBFZZ		5055565-1	57958	PLATE,ADPTR	EA	1
C-13	6	PAFZZ	5310-00-934-9765	MS35650-304	96906	NUT,PLAIN,HEX	EA	2
C-13	7	PAFZZ	5310-00-933-8120	MS35338-138	96906	WASHER,LOCK	EA	5
C-13	8	PAFZZ	5310-00-595-6772	MS15795-808	96906	WASHER,FLAT	EA	2
C-13	9	PAFZZ	5305-00-054-5652	MS51957-18	96906	SCR,MACH,PAN HD	EA	4
C-13	10	PAFZZ	5340-00-998-0611	MS25281F3	96906	CLAMP,LOOP	EA	4
C-13	11	PAFZZ	5305-00-717-5592	MS24693C275	96906	SCR,MACH,FL HD	EA	1
C-13	12	PAFZZ	5305-00-475-8020	NAS1351C3-16	80205	SCR,CAP,SKT HD	EA	1
C-13	13	PAFZZ	5305-00-088-9666	MS24693C51	96906	SCR,MACH,FL HD	EA	4



PREFIX ALL REFERENCE DESIGNATIONS WITH: A18A1
Figure C-14. Control, Voice Filter 5055275-1

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 01050701 CONTROL, VOICE FILTER (57958) 5055275-1		
C-14	1	PAFZZ	5305-00-066-7369	MS24693C12	96906	SCR,MACH,FL HD	EA	4
C-14	2	XBFZZ		5055554-1	57958	COVER,CONTROL	EA	1
C-14	3	PAFZZ	5310-00-595-6211	MS15795-803	96906	WASHER,FLAT	EA	12
C-14	4	PAFZZ	5305-00-054-5651	MS51957-17	96906	SCR,MACH,PAN HD	EA	8
C-14	5	XBHZZ		C5075848-4	57958	CABLE ASSY,RF	EA	1
C-14	6	XBHZZ		C5075848-3	57958	CABLE ASSY,RF	EA	1
C-14	7	PAFZZ		5054527-1	57958	SW,RF XMSN LINE	EA	2
C-14	8	PAFZZ	5310-00-933-8118	MS35338-135	96906	WASHER,LOCK	EA	4
C-14	9	PAFZZ	5310-00-934-9748	MS35649-244	96906	NUT,PLAIN,HEX	EA	4
C-14	10	PAFZZ	5305-00-088-9666	MS24693C51	96906	SCR,MACH,FL HD	EA	1
C-14	11	PAFZZ		M15733-61-0013	81349	FILTER,RFI	EA	2
C-14	12	PAFZZ	5310-00-069-5291	NAS620C8	80205	WASHER,FLAT	EA	1
C-14	13	PAFZZ	5310-01-067-9589	MS35338-137	96906	WASHER,LOCK	EA	1
C-14	14	PAFZZ	5310-00-934-9759	MS35649-284	96906	NUT,PLAIN,HEX	EA	1
C-14	15	PAFZZ	5940-00-918-8068	SE26XF02	81349	TERMINAL,STUD	EA	1
C-14	16	PAFZZ	5310-00-614-3552	MS35335-59	96906	WASHER,LOCK	EA	1
C-14	17	XBHZZ		C5075848-1	57958	CABLE ASSY,RF	EA	1
C-14	18	PAFZZ	5961-00-008-8362	JAN1N4115	81349	SCND DVC,DIODE	EA	1
C-14	19	PAFZZ	5935-00-008-4345	MS3474L12-10P	96906	CONN,RCPT,ELEC	EA	1
C-14	20	XBHZZ		C5075848-2	57958	CABLE ASSY,RF	EA	1
C-14	21	PAHZZ	5935-00-785-7021	MS3474L10-6S	96906	CONN,RCPT,ELEC	EA	1
C-14	22	PAFZZ	5935-00-006-7153	MS3474L12-10PX	96906	CONN,RCPT,ELEC	EA	1
C-14	23	PAFZZ	5935-01-036-6806	MS3474L10-6P	96906	CONN,RCPT,ELEC	EA	1
C-14	24	XBHZZ		C5075848-5	57958	CABLE ASSY,RF	EA	1
C-14	25	XBFFF		5055553-1	57958	HOUSING,CONTROL		

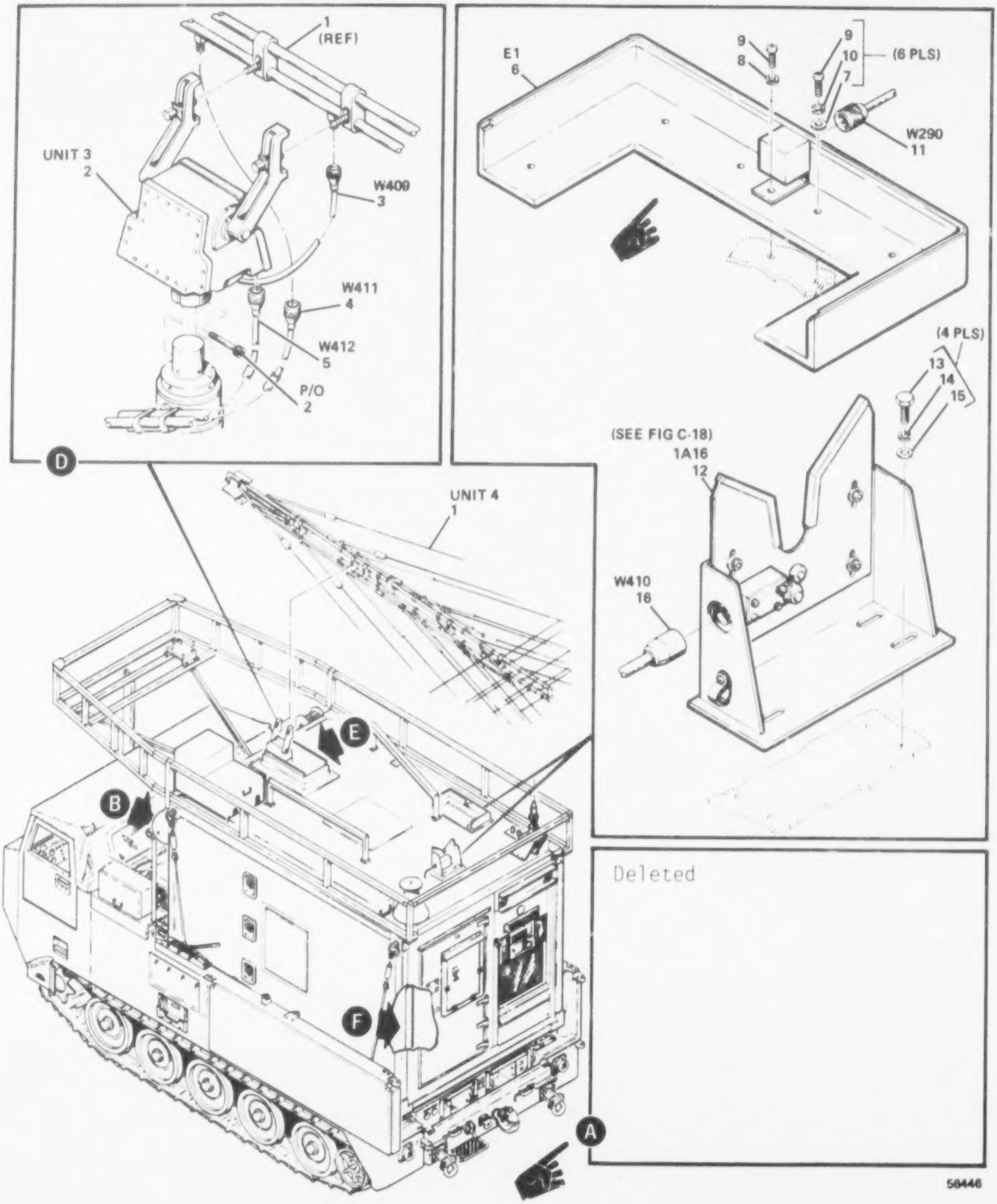


Figure C-15. Antenna Functional Group (Sheet 1 of 7)

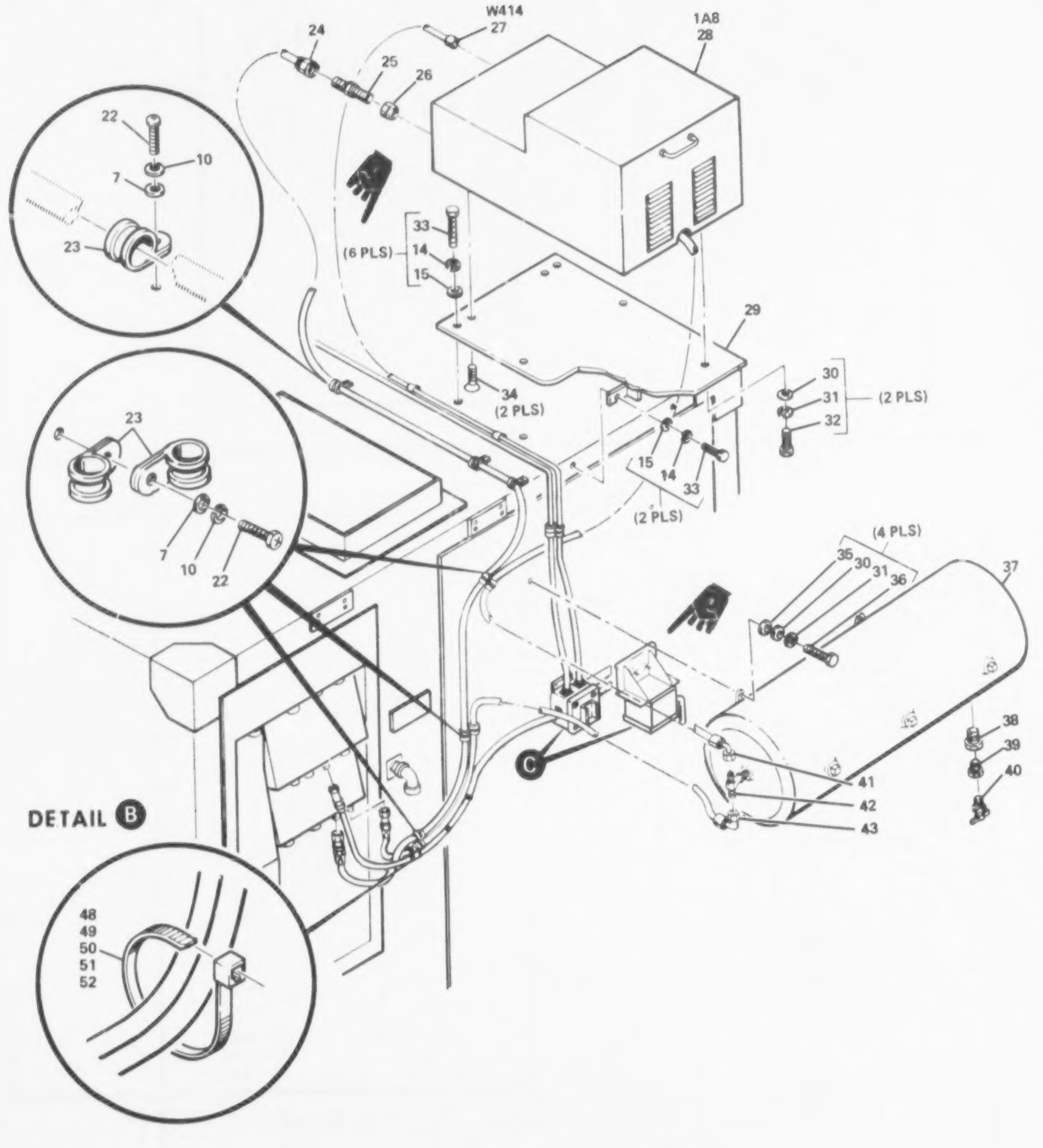


Figure C-15. Antenna Functional Group (Sheet 2 of 7)

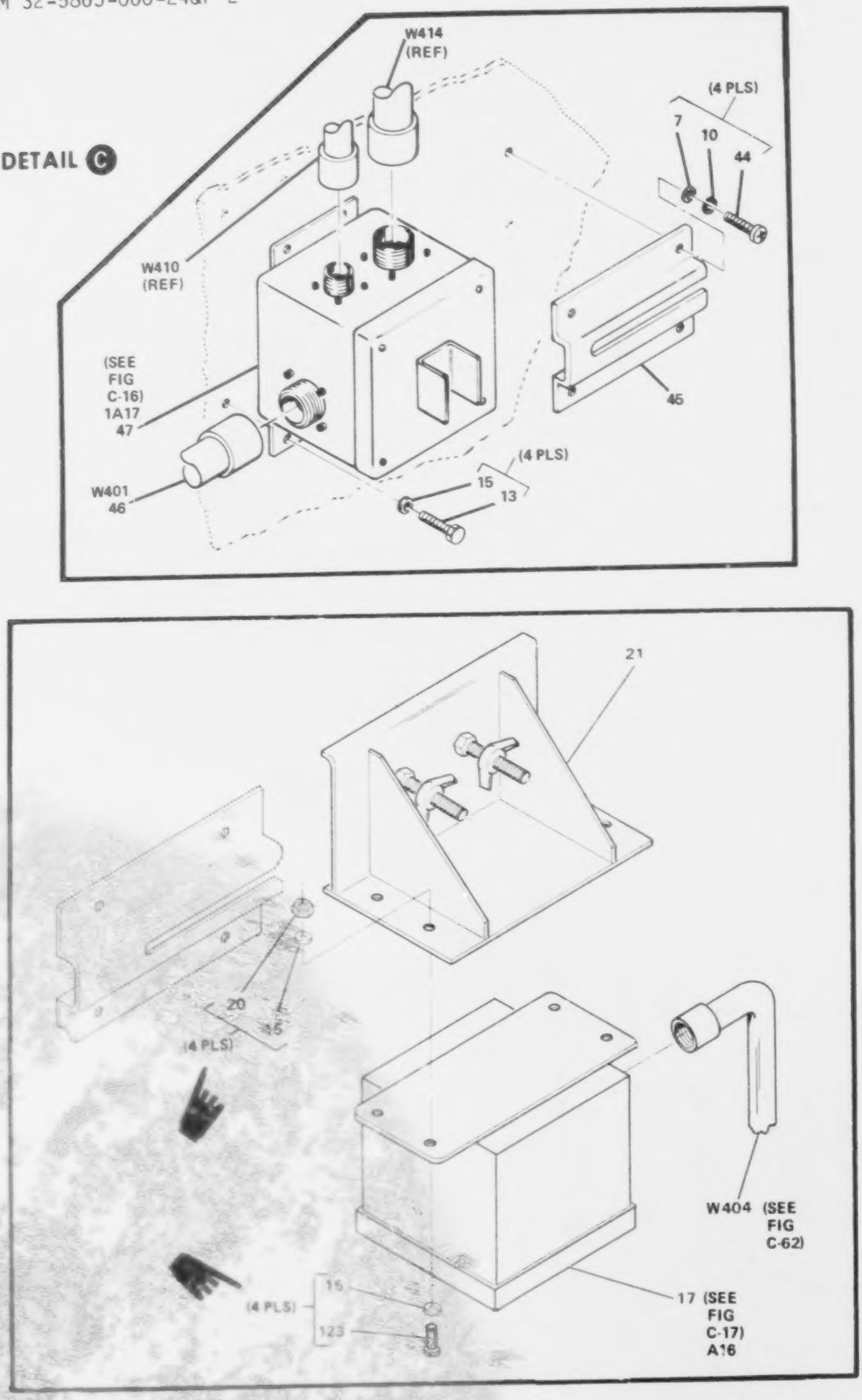


Figure C-15. Antenna Functional Group (Sheet 3 of 7)

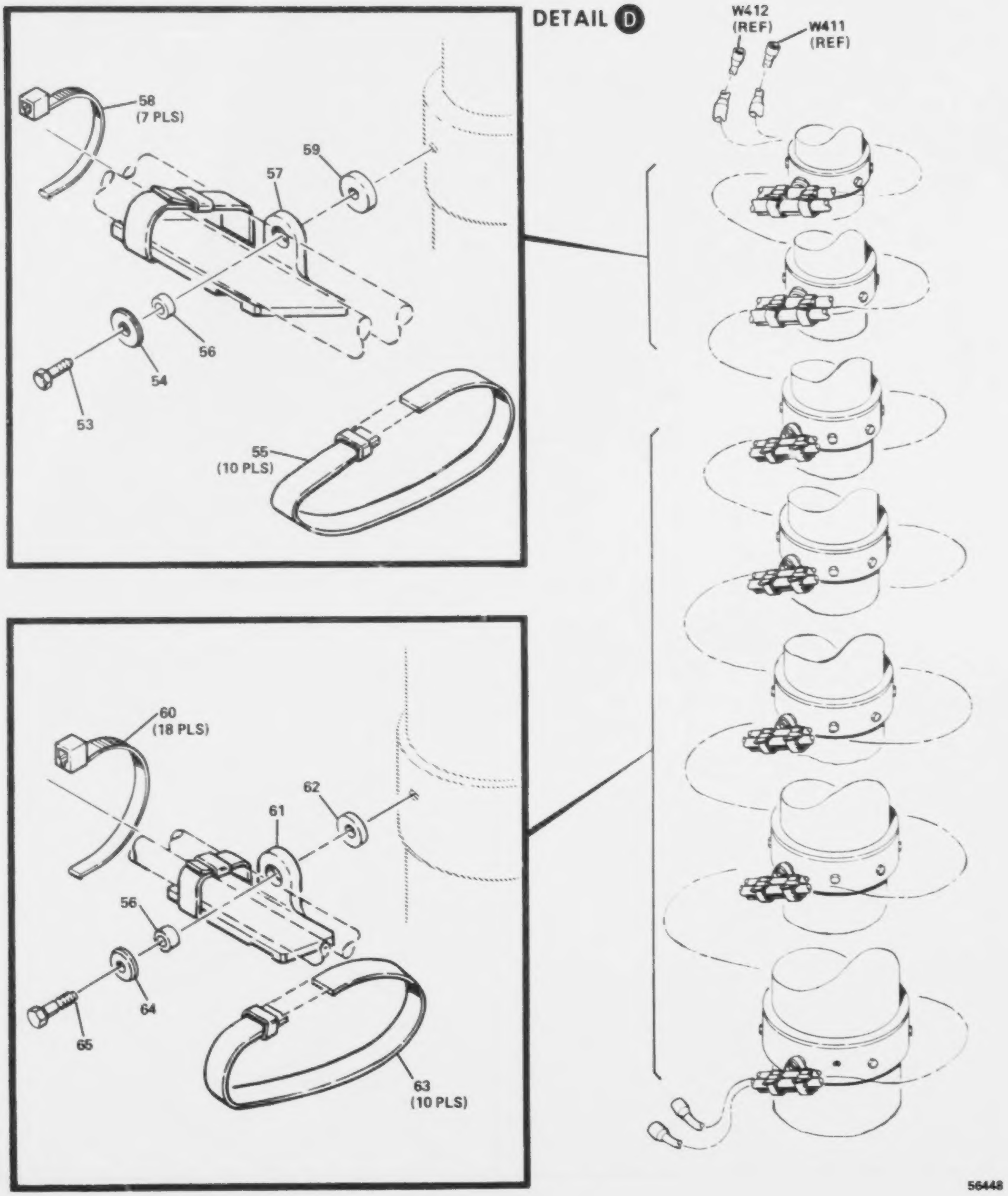


Figure C-15. Antenna Functional Group (Sheet 4 of 7)

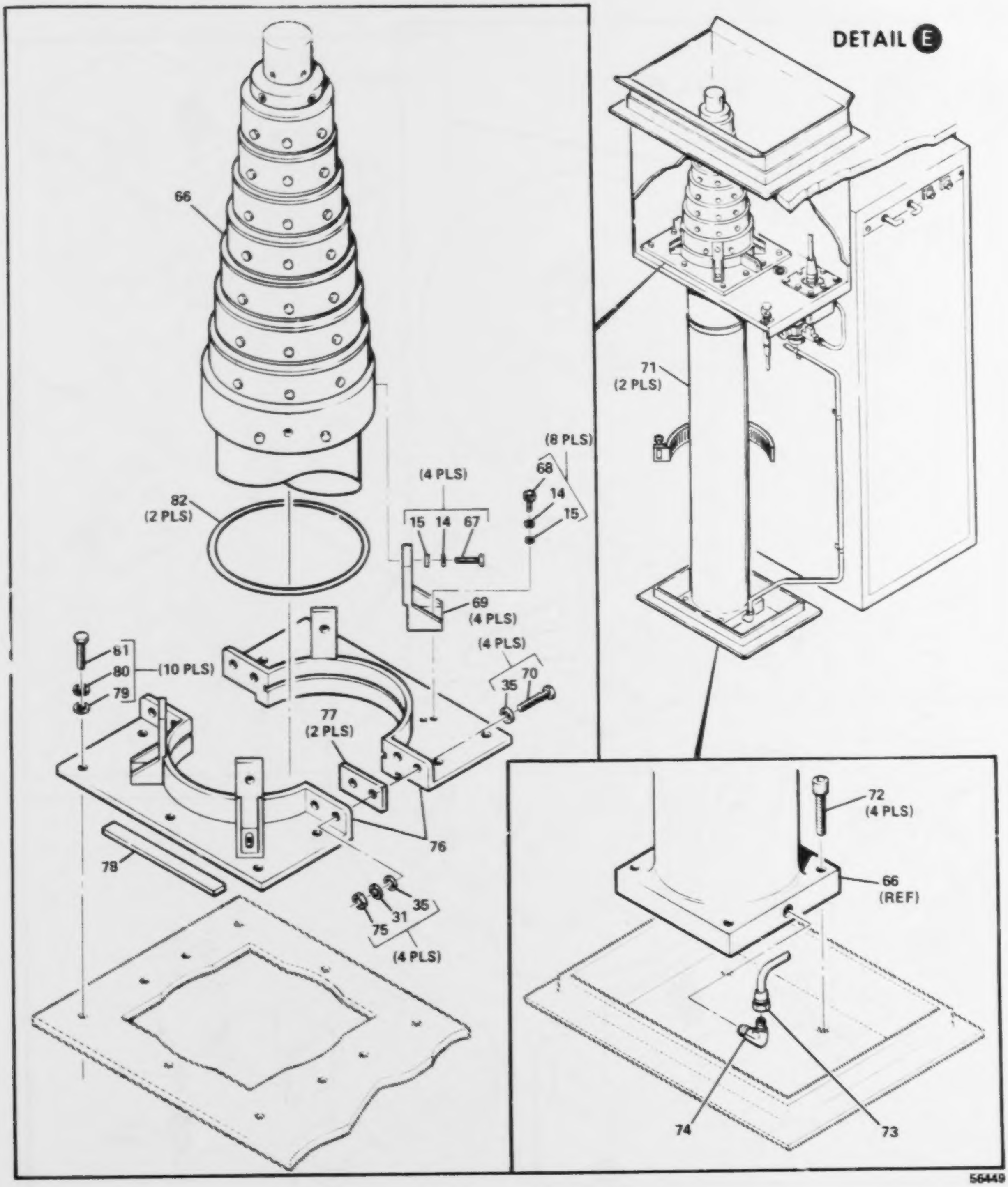


Figure C-15. Antenna Functional Group (Sheet 5 of 7)

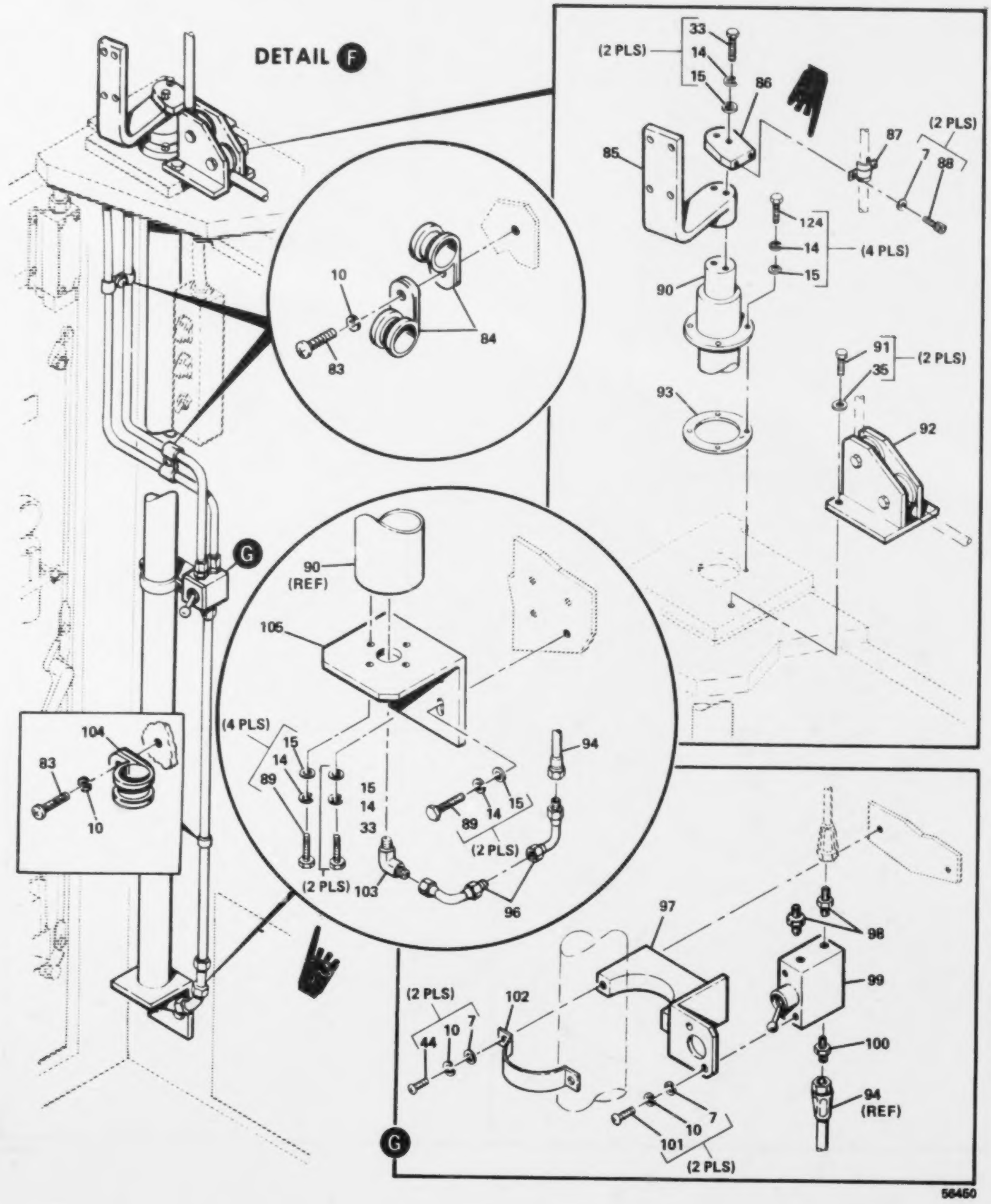


Figure C-15. Antenna Functional Group (Sheet 6 of 7)

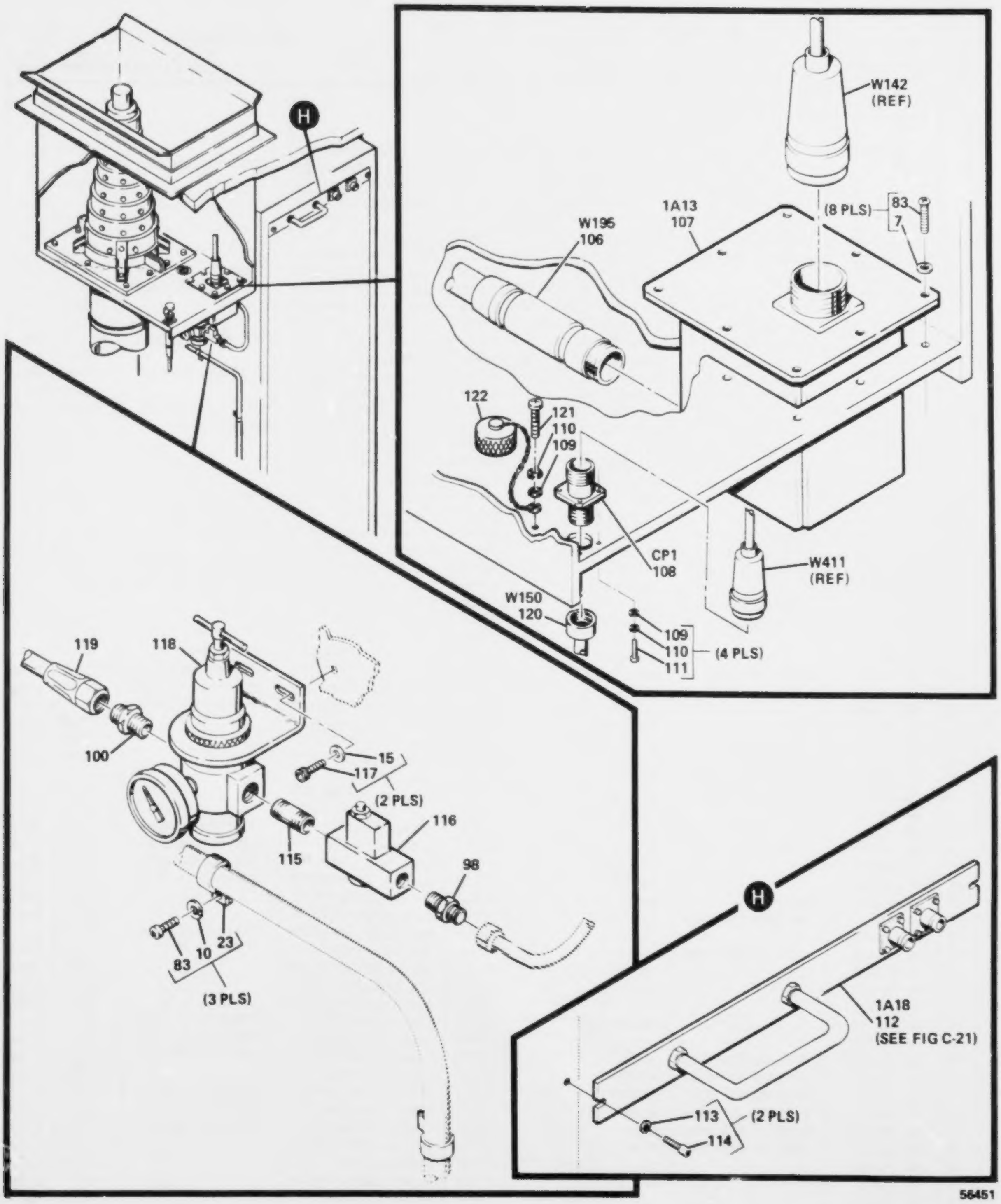


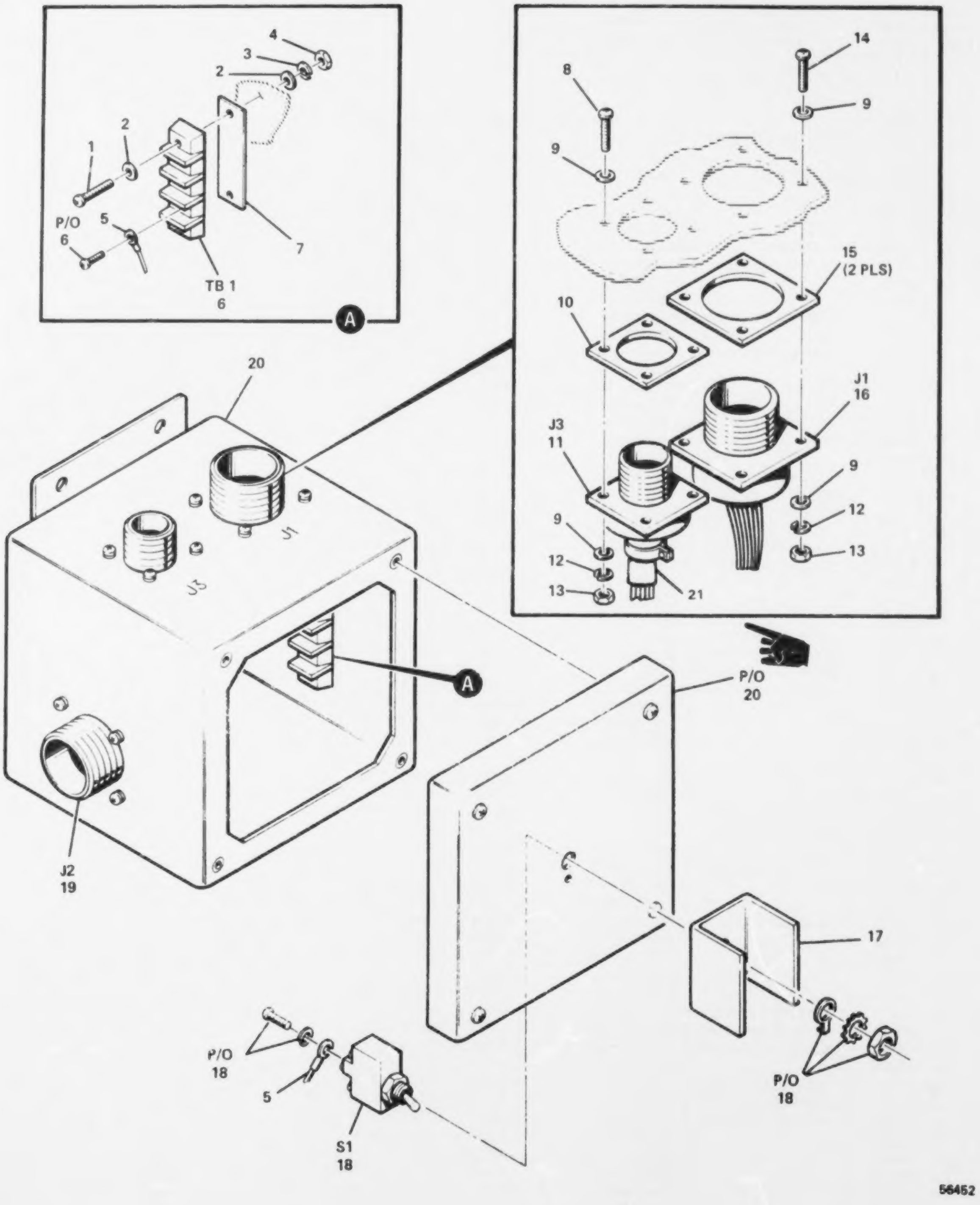
Figure C-15. Antenna Functional Group (Sheet 7 of 7)

SECTION II REPAIR PARTS LIST

	(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
							GROUP 01050702 FILTER, BAND PASS (57958) 5054525-1		
	C-15	1	PDFHD	5985-01-109-1697	5052250-1	57958	ANTENNA	EA	1
	C-15	2	PDFDD	5865-01-109-1685	5052260-1	57958	POSITIONER,ANT	EA	1
	C-15	3	XBFFF		5055502-409	57958	CABLE ASSY,SP	EA	1
	C-15	4	XBFFF		C5077411-411	57958	CABLE ASSY,SP	EA	1
	C-15	5	XBFFF		C5077412-412	57958	CABLE ASSY,SP	EA	1
	C-15	6	PAOZZ	5865-01-109-1696	5051519-1	57958	ANTENNA	EA	1
	C-15	7	PAFZZ	5310-00-595-6772	MS15795-808	96906	WASHER,FLAT	EA	21
	C-15	8	PAFZZ	5310-00-209-1239	MS35335-60	96906	WASHER,LOCK	EA	1
	C-15	9	PAOZZ	5305-00-059-3663	MS51958-67	96906	SCR,MACH,PAN HD	EA	6
	C-15	10	PAFZZ	5310-00-933-8120	MS35338-138	96906	WASHER,LOCK	EA	22
	C-15	11	XBDDD		C5077399-290	57958	CABLE ASSY,RF	EA	1
	C-15	12	XBFFF		5055274-1	57958	SUPPORT,ANTENNA	EA	1
	C-15	13	PAFZZ	5310-00-764-9564	NAS620C416L	80205	WASHER,FLAT	EA	5
C	C-15	14	PAFZZ	5310-00-933-8121	MS35338-139	96906	WASHER,LOCK	EA	38
C	C-15	15	PAFZZ	5310-00-582-5677	MS15795-810	96906	WASHER,FLAT	EA	44
	C-15	16	XBFFF		C5077453-410	57958	CABLE ASSY,SP	EA	1
	C-15	17	PAFFF		5051727-1	57958	CONT MAST	EA	1
	C-15	18	PAFZZ	5305-00-068-0508	MS90728-6	96906	SCR,CAP,HEX HD	EA	18
	C-15	19	PAFZZ	5310-00-582-5677	MS15795-810	96906	WASHER,FLAT	EA	8
C	C-15	20	PAFZZ	5310-00-245-8825	MS16228-4C	96906	NUT,SLFLKG,HEX	EA	8
	C-15	21	PAFFF		C5114423-1	57958	BRKT,MAST CONT	EA	1
C	C-15	22	PAFZZ	5305-00-059-3665	MS51958-69	96906	SCR,MACH,PAN HD	EA	12
	C-15	23	PAFZZ	5340-01-121-2862	M85052/1-12	81349	CLAMP,LOOP	EA	9
	C-15	24	PAFZZ		C5077443-1	57958	HOSE ASSY,NM	EA	1
	C-15	25	PAFZZ		C5114424-1	57958	RDCR BODY, TUBE	EA	1
	C-15	26	PAFZZ	4730-00-951-2382	MS51531B16S	96906	NUT TUBE	EA	1
	C-15	27	XBHHH		C5114416-414	57958	CABLE ASSY, SP	EA	1
C	C-15	28	PAHHH		5035394-1	57958	PNEU CMPNT ASSY	EA	1
	C-15	29	XBFFF		5053128-1	57958	PLATE,MTG,CPRSR	EA	1
	C-15	30	PAFZZ	5310-00-595-6057	MS15795-815	96906	WASHER,FLAT	EA	6
	C-15	31	PAFZZ	5310-00-984-7042	MS35338-141	96906	WASHER,LOCK	EA	14
	C-15	32	PAFZZ	5305-00-269-2801	MS90726-58	96906	SCR,CAP,HEX HD	EA	2
C	C-15	33	PAFZZ	5305-00-071-2241	MS90725-10	96906	SCR,CAP,HEX HD	EA	10
C	C-15	34	PAFZZ		MS24693C339	96906	SCR,FL HD	EA	2
	C-15	35	PAFZZ	5310-00-773-7618	MS15795-814	96906	WASHER,FLAT	EA	14
	C-15	36	PAFZZ	5305-00-269-3217	MS90725-67	96906	SCR,CAP,HEX HD	EA	4
	C-15	37	PDFHD		5035807-5	57958	TANK,PRESSURE	EA	1
	C-15	38	PAFZZ		5054283-1	57958	BUSHING,PIPE	EA	1
	C-15	39	PAFZZ	4730-00-146-0372	AN912-9K	88044	BUSHING,PIPE	EA	1
	C-15	40	PAFZZ	4820-00-720-4488	MS35782-2	96906	COCK,DRAIN	EA	1
	C-15	41	PAFZZ		C5077442-2	57958	HOSE ASSY,NM	EA	1
	C-15	42	PAFZZ	4730-00-995-1590	MS5151288	96906	TEE,PIPE-TUBE	EA	1
	C-15	43	PAFZZ		C5077442-1	57958	HOSE ASSY,NM	EA	1
C	C-15	44	PAFZZ		MS51958-75	96906	SCR,MACH,PAN HD	EA	2
C	C-15	45	PAFZZ		C5121150	57958	ADPTR,MAST CONT	EA	1
	C-15	46	XBFFF		5053205-401	57958	CABLE ASSY,SP	EA	1
C	C-15	47	PAOFF		C5114415-1	57958	CONT,AIR CPRSR	EA	1
	C-15	48	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	250
	C-15	49	PAFZZ	5975-00-451-5001	MS3367-3-9	96906	STRAP,TIEDOWN	EA	200
	C-15	50	PAFZZ	5975-00-727-5153	MS3367-4-9	96906	STRAP,TIEDOWN	EA	200
	C-15	51	PAFZZ	5975-00-111-3208	MS3367-5-9	96906	STRAP,TIEDOWN	EA	200
	C-15	52	PAFZZ	5975-00-570-9598	MS3367-7-9	96906	STRAP,TIEDOWN	EA	250
	C-15	53	PAFZZ	5305-00-225-3843	MS90728-8	96906	SCR,CAP,HEX HD	EA	2
	C-15	54	PAFZZ		0224-1-2033-2	57955	WASHER,BEVEL	EA	2
C	C-15	55	PAFZZ		C5075882-2	57958	CLAMP,CABLE	EA	4
	C-15	56	PAFZZ		0224-1-2034-1	57958	BUSHING,CLAMP	EA	7
	C-15	57	PAFZZ		0224-1-3080-1	57958	SUPPORT,CABLE	EA	2
	C-15	58	PAFZZ	5975-00-451-5001	MS3367-3-9	96906	STRAP,TIEDOWN	EA	7

SECTION II REPAIR PARTS LIST

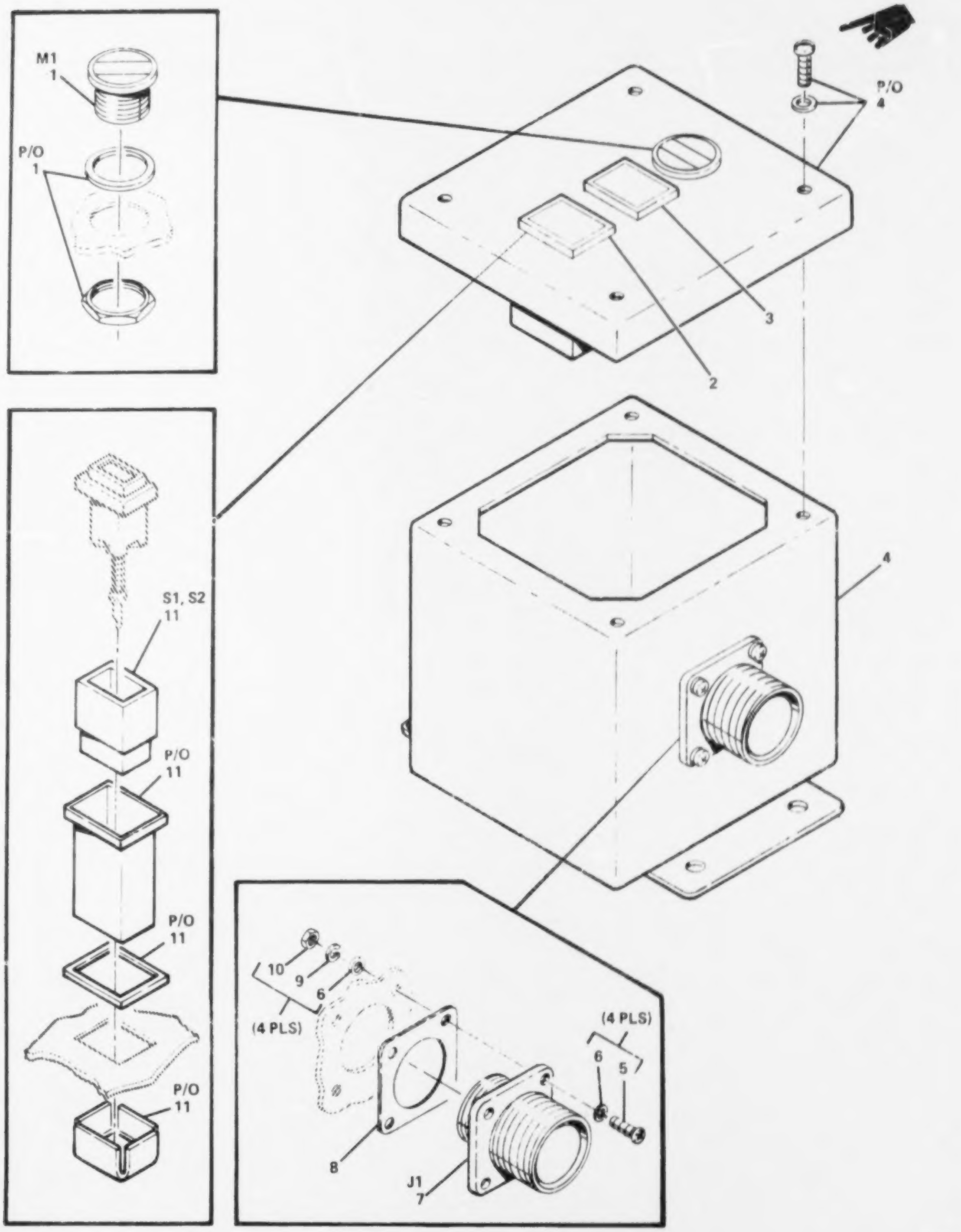
	(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
	(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
	C-15	59	PAFZZ		0224-1-2032-2	57958	HASHER,CONCAVE	EA	2
	C-15	60	PAFZZ	5975-00-985-6630	MS3367-3-0	96906	STRAP,TIEDOHN	EA	16
	C-15	61	PAFZZ		0224-1-3079-1	57958	SUPPORT,CABLE	EA	5
	C-15	62	PAFZZ		0224-1-2032-1	57958	HASHER,CONCAVE	EA	5
	C-15	63	PAFZZ		C5075887-1	57958	CLAMP,CABLE	EA	10
	C-15	64	PAFZZ		0224-1-2033-1	57958	HASHER,BEVEL	EA	5
C	C-15	65	PAFZZ		MS90728-6	96906	SCR,CAP,HEX HD	EA	5
	C-15	66	PDFHD	5985-01-118-5420	5035601-1	57958	MAST	EA	1
	C-15	67	PAFZZ	5305-00-225-3839	MS90725-8	96906	SCR,CAP,HEX HD	EA	4
	C-15	68	PAHZZ		MAS1352C4-14	80205	SCR,CAP,SKT HD	EA	8
	C-15	69	XBFZZ		5051840-1	57958	BRACKET,ANGLE	EA	4
	C-15	70	PAFZZ	5305-00-269-3214	MS90725-64	96906	SCR,CAP,HEX HD	EA	4
	C-15	71	PAFFF		C5075817-1	57958	CLAMP,HOSE	EA	2
	C-15	72	PAFZZ	5305-00-988-7846	MS16995-83	96906	SCR,CAP,SKT HD	EA	4
	C-15	73	PAFZZ		C5077442-3	57958	HOSE ASSY,NM	EA	1
	C-15	74	PAFZZ	4730-00-863-9093	MS51504B8-8	96906	ELBOW,PIPE-TUBE	EA	1
	C-15	75	PAFZZ	5310-00-732-0558	MS51967-8	96906	NUT,PLAIN,HEX	EA	4
	C-15	76	XBFFF		5051839-1	57958	SUPPORT,MAST	EA	2
	C-15	77	XBFZZ		5055560-1	57958	SHLD GSKT,ELEK	EA	2
	C-15	78	PAFZZ		5055561-1	57958	SHLD GSKT,ELEK	EA	1
	C-15	79	PAFZZ	5310-00-081-4219	MS27183-12	96906	HASHER,FLAT	EA	10
	C-15	80	PAFZZ	5310-00-974-6623	MS35338-140	96906	HASHER,LOCK	EA	10
	C-15	81	PAFZZ	5306-00-225-8502	MS90725-38	96906	SCR,CAP,HEX HD	EA	10
	C-15	82	PAFZZ		5051510-101	57958	SHLD GSKT,ELEK	EA	2
	C-15	83	PAFZZ	5305-00-059-3660	MS51958-64	96906	SCR,MACH,PAN HD	EA	14
	C-15	84	PAFZZ	5340-01-117-2499	M85052/1-6	81349	CLAMP,LOOP	EA	4
	C-15	85	PAFZZ		5052354-1	57958	ADPTR,ANT-MAST	EA	1
	C-15	86	XBFFF		C5077097-1	57958	SPRT,CABLE CLP	EA	1
	C-15	87	PAFZZ		NAS1716C6T	80205	STRAP,RETAINING	EA	1
	C-15	88	PAFZZ	5305-00-057-4593	NAS1351C3-6	80205	SCR,CAP,SKT HD	EA	2
C	C-15	89	PAFZZ	5305-00-225-3840	MS90725-7	96906	SCR,CAP,HEX HD	EA	6
	C-15	90	PAODD	5865-01-109-1681	5052270-1	57958	MAST	EA	1
	C-15	91	PAFZZ	5305-00-269-3209	MS90725-58	96906	SCR,CAP,HEX HD	EA	2
	C-15	92	PAFFF		5052355-1	57958	BRACKET,PULLEY	EA	1
	C-15	93	PAFZZ		5054381-2	57958	SHLD GSKT,ELEK	EA	1
	C-15	94	PAFZZ		C5077564-1	57958	HOSE ASSY,NM	EA	1
C									
	C-15	96	PAFZZ		MS51522B6	96906	ELBOW,TUBE	EA	2
	C-15	97	XBFZZ		5051517-1	57958	BRACKET,MAST	EA	1
	C-15	98	PAFZZ	4730-00-833-0508	MS51819-7	96906	ADPTR,PIPE-TUBE	EA	3
	C-15	99	PAFZZ	4820-00-909-3942	5054478-1	57958	VALVE,PLUG	EA	1
	C-15	100	PAFZZ	4730-00-088-8908	MS51500B6	96906	ADPTR,PIPE-TUBE	EA	2
	C-15	101	PAOZZ	5305-00-059-3659	MS51958-63	96906	SCR,MACH,PAN HD	EA	2
	C-15	102	PAFZZ		C5077126-1	57958	STRAP,MAST	EA	1
	C-15	103	PAFZZ		MS51504B6-8	96906	ELBOW,PIPE-TUBE	EA	1
	C-15	104	PAFZZ	5340-01-146-0479	M85052/1-11	81349	CLAMP,LOOP	EA	1
	C-15	105	XBFZZ		5052353-1	57958	BASE,MAST	EA	1
	C-15	106	XBHHH		5053205-195	57958	CABLE ASSY, SP	EA	1
	C-15	107	PAOFF		5052377-1	57958	FILTER ASSY	EA	1
	C-15	108	PAFZZ		5054730-1	57958	ADAPTER,CONN	EA	1
	C-15	109	PAFZZ	5310-00-722-5998	MS15795-805	96906	HASHER,FLAT	EA	5
	C-15	110	PAFZZ	5310-00-929-6395	MS35338-136	96906	HASHER,LOCK	EA	5
	C-15	111	PAFZZ	5305-00-054-6656	MS51957-32	96906	SCR,MACH,PAN HD	EA	4
	C-15	112	XBOFF		5053258-1	57958	PANEL,PATCH,ANT	EA	1
	C-15	113	PAFZZ	5970-01-141-5254	5054678-1	57958	INSULATOR,HSHR	EA	2
	C-15	114	PAFZZ	5305-00-926-5532	5054677-1	57958	SCREH,MACHINE	EA	2
	C-15	115	PAFZZ	4730-01-104-2268	MS51953-25	96906	NIPPLE,PIPE	EA	1
	C-15	116	PAFZZ		5054291-1	57958	VALVE,CHECK	EA	1
C	C-15	117	PAFZZ		NAS1351C4-8	80205	SCR,CAP,SKT HD	EA	2
	C-15	118	PAFZZ		5054617-1	57958	RGLTR,AIR PRESS	EA	1
	C-15	119	PAFZZ		C5077562-1	57958	HOSE ASSY,NM	EA	1
	C-15	120	XBHHH		C5077395-150	57958	CABLE ASSY, RF	EA	1
	C-15	121	PAFZZ	5305-00-054-6654	MS51957-30	96906	SCR,MACH,PAN HD	EA	1
	C-15	122	XBFZZ		5054281-1	57958	COVER,ELEC CONN	EA	1
N	C-15	123	PAFZZ		NAS1352C4-12	80205	SCR, CAP, SKT MD	EA	4
N	C-15	124	PAFZZ	5305-00-068-0502	MS90725-6	96906	SCR,CAP,HEX HD	EA	4



PREFIX ALL REFERENCE DESIGNATIONS WITH: A17
Figure C-16. Control, Air Compressor C5114415

SECTION II REPAIR PARTS LIST

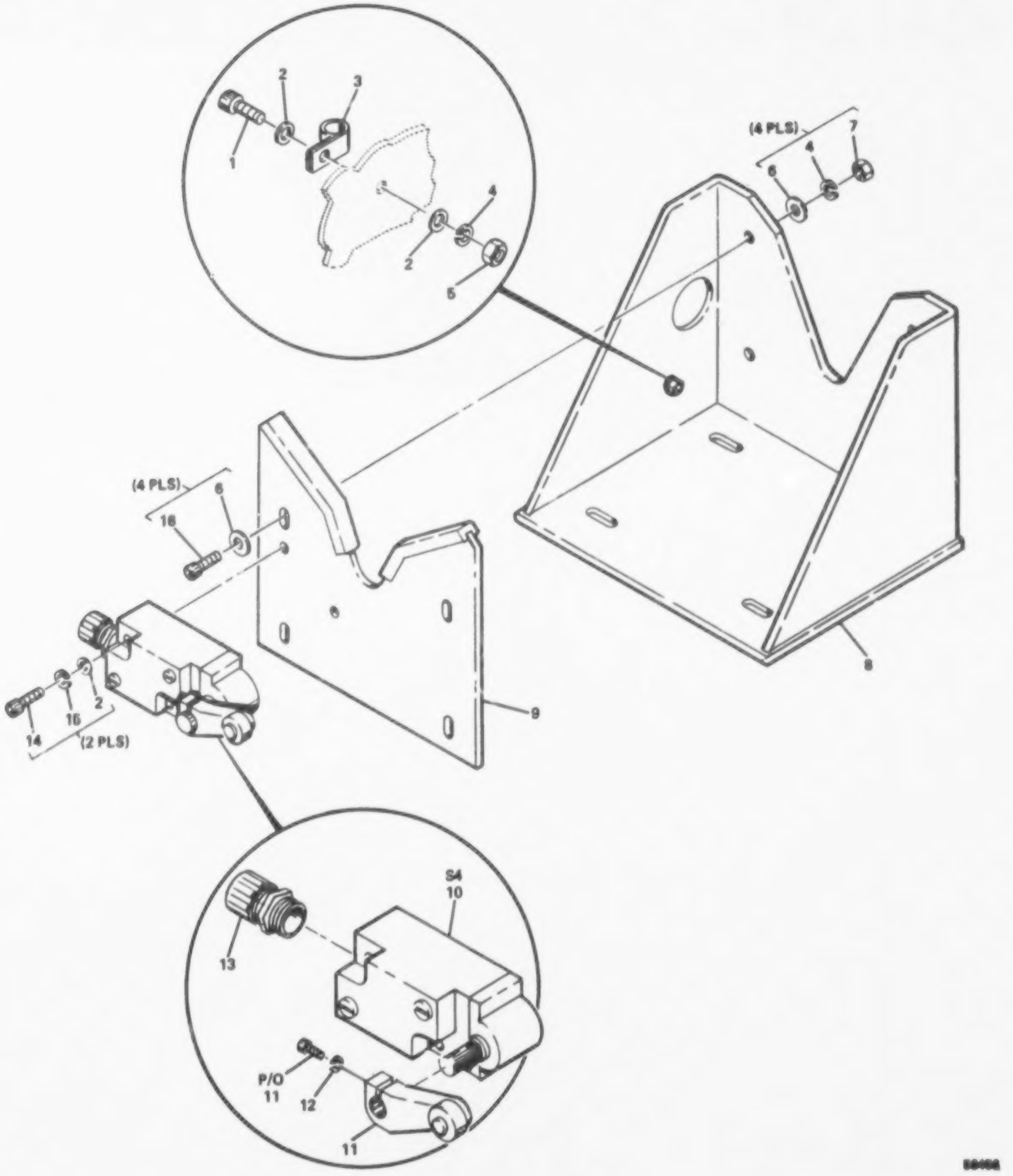
(1) ILLUS (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 010604 CONTROL, AIR COMPRESSOR (57958) C5114415		
C-16	1	PAFZZ		MS15795-31		SCR,MACH,PAN HD	EA	4
C-16	2	PAFZZ		MS15795-805		WASHER,FLAT	EA	8
C-16	3	PAFZZ		MS35338-136		WASHER,LOCK	EA	4
C-16	4	PAFZZ		MS35649-264		NUT,PLAIN,HEX	EA	4
C-16	5	PAFZZ		MS25036-102		TERMINAL,LUG	EA	13
C-16	6	PAFZZ		37T83		TERMINAL BOARD	EA	1
C-16	7	PAFZZ		5054736-3		PLATE,DES	EA	1
C-16	8	PAFZZ		MS51957-15		SCR,MACH,PAN HD	EA	4
C-16	9	PAFZZ		MS15795-803		WASHER,FLAT	EA	24
C-16	10	PAFZZ		5054776-4		SHLD GSKT,ELEK	EA	1
C-16	11	PAFZZ		MS3100F14S6S		CONN,RCPT,ELEC	EA	1
C-16	12	PAFZZ		MS35338-135		WASHER,LOCK	EA	12
C-16	13	PAFZZ		MS35649-244		NUT,PLAIN,HEX	EA	12
C-16	14	PAFZZ		MS51957-16		SCR,MACH,PAN HD	EA	8
C-16	15	PAFZZ		5054776-7		SHLD GSKT,ELEK	EA	2
C-16	16	PAFZZ		MS3100R20-27S		CONN,RCPT,ELEC	EA	1
C-16	17	PAFZZ		C5114417-1		GUARD,SWITCH	EA	1
C-16	18	PAFZZ		MS24523-22		SWITCH,TOGGLE	EA	1
C-16	19	PAFZZ		MS3100R20-27P		CONN,RCPT,ELEC	EA	1
C-16	20	PAFZZ		C5114414-1		JUNCTION BOX	EA	1
N C-16	21	PAFZZ	5365-00-598-5417	MS3420-3		ADAPTER,CABLE CLAMP	EA	1



PREFIX ALL REFERENCE DESIGNATIONS WITH: A16
Figure C-17. Control, Mast 5051727-1

SECTION II REPAIR PARTS LIST

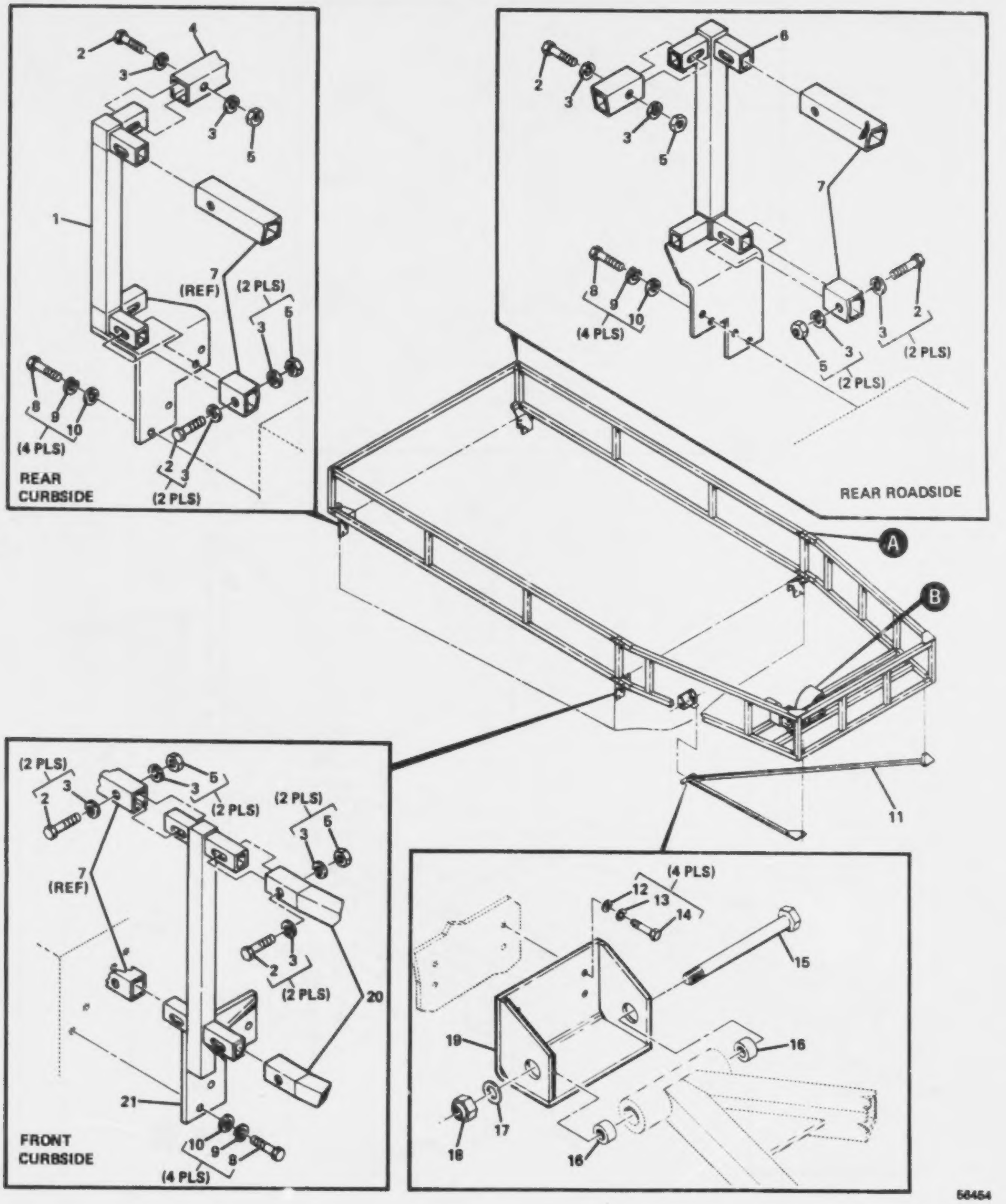
(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 010607 CONTROL, MAST (57958) 5051727-1		
C-17	1	PAFZZ		5054673-1	57958	IND,SYMBOL IND	EA	1
C-17	2	PAFZZ		5054526-27	57958	LIGHT,INDICATOR	EA	1
C-17	3	PAFZZ		5054526-26	57958	LIGHT,INDICATOR	EA	1
C-17	4	XBFZZ		5055571-1	57958	JUNCTION BOX	EA	1
C-17	5	PAFZZ	5305-00-054-5651	MS51957-17	96906	SCR,MACH,PAN HD	EA	4
C-17	6	PAFZZ	5310-00-595-6211	MS15795-803	96906	WASHER,FLAT	EA	8
C-17	7	PAFZZ	5935-00-721-0490	MS3102R18-1P	96906	CONN,RCPT,ELEC	EA	1
C-17	8	PAFZZ	5999-00-520-8087	5054776-6	57958	SHLD GSKT,ELEK	EA	1
C-17	9	PAFZZ	5310-00-933-8118	MS35338-135	96906	WASHER,LOCK	EA	4
C-17	10	PAFZZ	5310-00-934-9748	MS35649-244	96906	NUT,PLAIN,HEX	EA	4
C-17	11	PAFZZ		5054526-101	57958	LIGHT-SWITCH	EA	2



PREFIX ALL REFERENCE DESIGNATIONS WITH: A16
Figure C-18. Support, Antenna 5055274-1

SECTION II REPAIR PARTS LIST

	(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
	(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
							GROUP 010609 SHROUD, ANTENNA (57958) 5051590-1		
C	C-18	1	PAFZZ	5305-00-788-5487	NAS1351C3-12	80205	SCR,CAP,SKT HD	EA	1
	C-18	2	PAFZZ	5310-00-595-6772	MS15795-808	96906	WASHER,FLAT	EA	8
	C-18	3	PAFZZ	5340-00-954-3134	MS25281R7	96906	CLAMP,LOOP	EA	1
	C-18	4	PAFZZ	5310-00-933-8121	MS35338-139	96906	WASHER,LOCK	EA	4
	C-18	5	PAFZZ	5310-00-934-9765	MS35650-304	96906	NUT,PLAIN,HEX	EA	1
	C-18	6	PAFZZ	5310-00-582-5677	MS15795-810	96906	WASHER,FLAT	EA	8
	C-18	7	PAFZZ	5310-00-761-6882	MS51967-2	96906	NUT,PLAIN,HEX	EA	4
	C-18	8	XBFFF		5055523-1	57958	SUPPORT,ANTENNA	EA	1
	C-18	9	XBFFF		5053293-1	57958	SUPPORT,ANT	EA	1
	C-18	10	PAFZZ	5930-01-159-4846	5054461-1	57958	SW,SENSITIVE	EA	1
	C-18	11	PAFZZ	5930-01-029-9109	5054462-1	57958	ADAPTER,SW ACTR	EA	1
	C-18	12	PAFZZ	5310-01-067-9589	MS35338-137	96906	WASHER,LOCK	EA	1
	C-18	13	PAFZZ	5975-00-296-1669	5054519-2	57958	BSHG,STRAIN RLF	EA	1
C	C-18	14	PAFZZ	5305-00-140-0253	NAS1351C3-20	80205	SCR,CAP,SKT HD	EA	2
	C-18	15	PAFZZ	5310-00-933-8120	MS35338-138	96906	WASHER,LOCK	EA	3
	C-18	16	PAFZZ	5305-00-943-5939	NAS1352C4-16	80205	SCR,CAP,SKT HD	EA	4



PREFIX ALL REFERENCE DESIGNATIONS WITH: A6
Figure C-19. Shroud, Antenna 5051590-1 (Sheet 1 of 2)

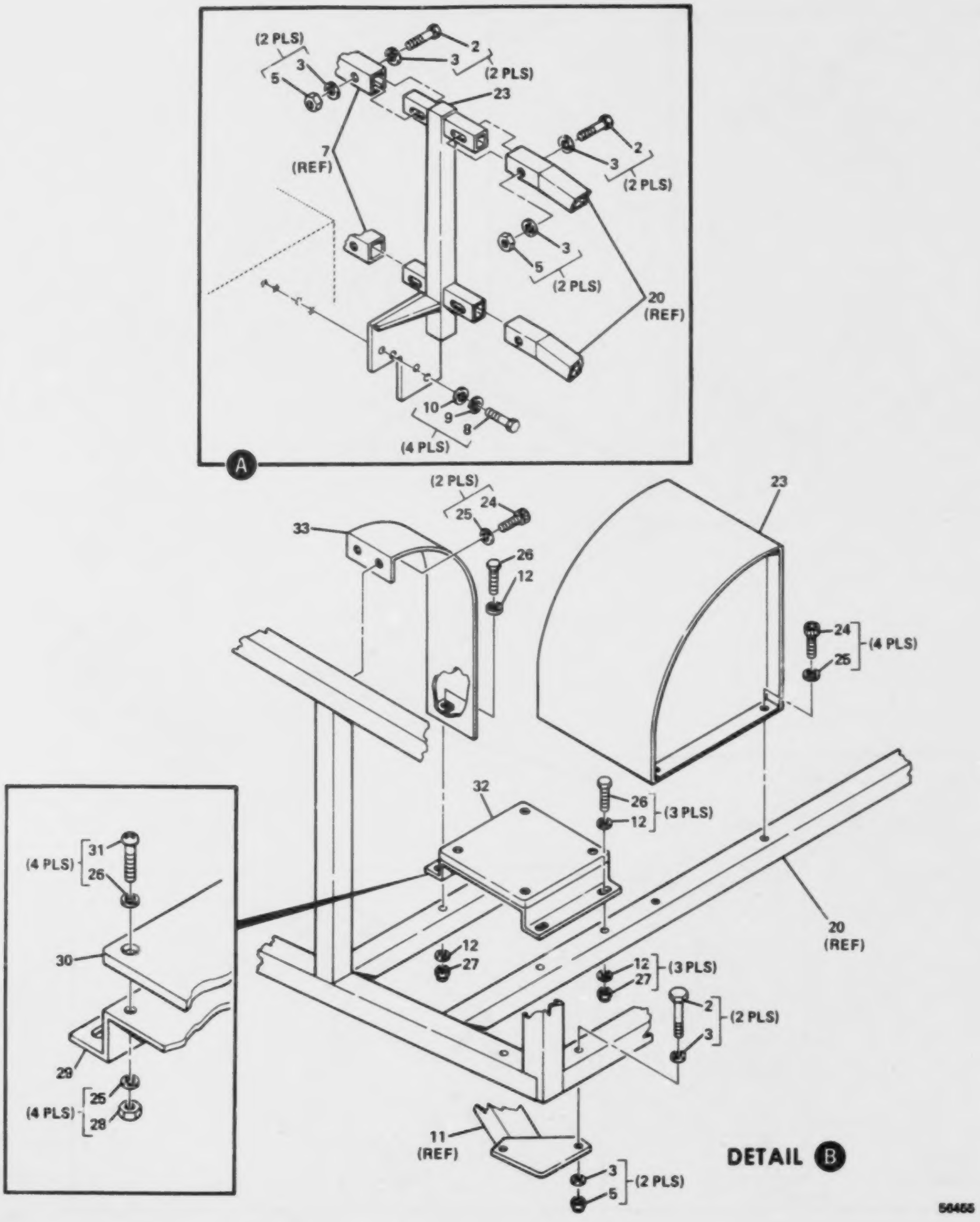
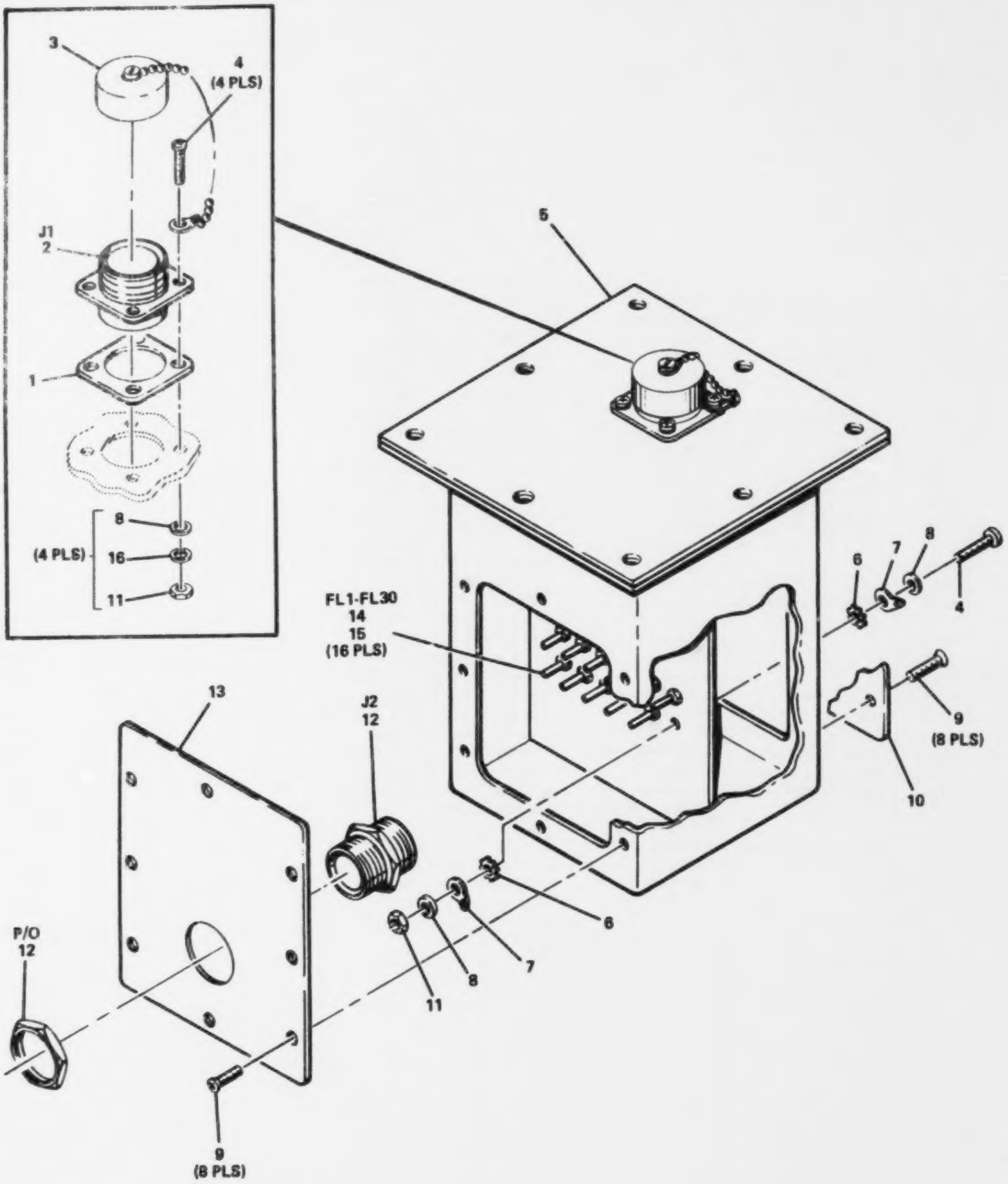


Figure C-19. Shroud, Antenna 5051590-1 (Sheet 2 of 2)

SECTION II REPAIR PARTS LIST

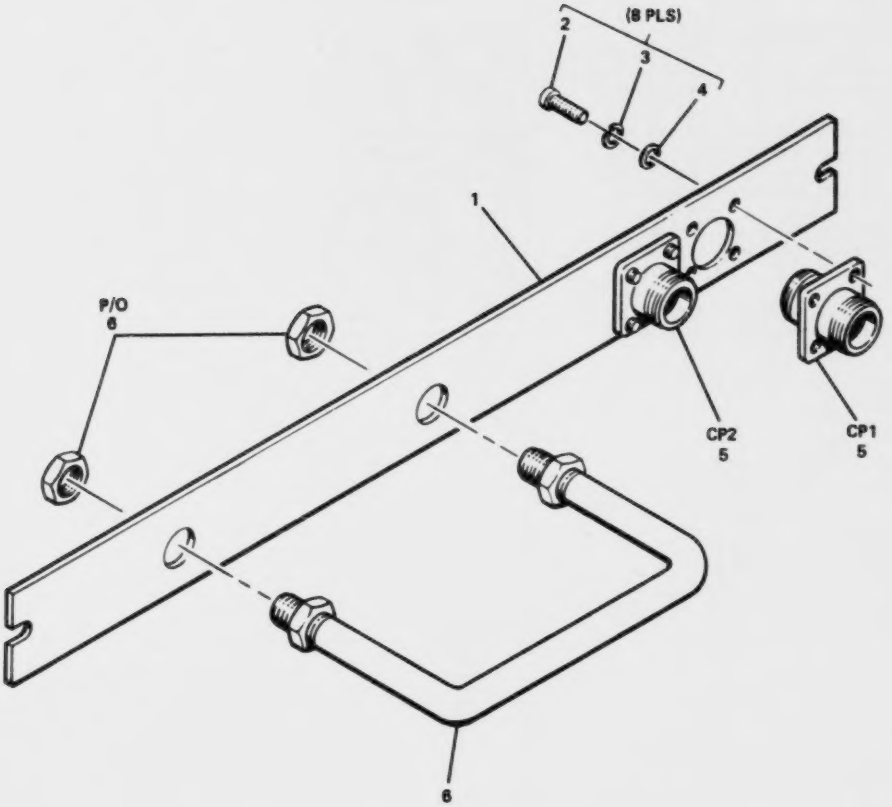
(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 010608 SUPPORT,ANTENNA (57958)5055274-1		
C-19	1	PAFZZ		5052022-1	57958	BRACKET,SHROUD	EA	1
C-19	2	PAFZZ	5306-00-225-8506	MS90725-42	96906	SCR,CAP,HEX HD	EA	18
C-19	3	PAFZZ	5310-00-625-5756	MS15795-812	96906	WASHER,FLAT	EA	36
C-19	4	PAFZZ		5052042-1	57958	RAIL,SHROUD	EA	1
C-19	5	PAFZZ	5310-00-241-6606	MS17830-5C	96906	NUT,SLFLKG,HEX	EA	18
C-19	6	PAFZZ		5052022-2	57958	BRACKET,SHROUD	EA	1
C-19	7	PAFZZ		5052344-1	57958	RAIL,SHROUD	EA	2
C-19	8	PAFZZ	5305-00-269-3215	MS90725-65	96906	SCR,CAP,HEX HD	EA	16
C-19	9	PAFZZ	5310-00-984-7042	MS35338-141	96906	WASHER,LOCK	EA	16
C-19	10	PAFZZ	5310-00-773-7618	MS15795-814	96906	WASHER,FLAT	EA	16
C-19	11	PAFZZ		5052024-1	57958	STRUT,SUPPORT	EA	1
C-19	12	PAFZZ	5310-00-582-5677	MS15795-810	96906	WASHER,FLAT	EA	12
C-19	13	PAFZZ	5310-00-933-8121	MS35338-139	96906	WASHER,LOCK	EA	4
C-19	14	PAFZZ	5305-00-071-2241	MS90725-10	96906	SCR,CAP,HEX HD	EA	4
C-19	15	PAFZZ		MS21301-91	96906	BOLT,SHOULDER	EA	1
C-19	16	PAFZZ		C5075827-1	57958	BUSHING,RUBBER	EA	2
C-19	17	PAFZZ	5310-00-543-2862	MS15795-818	96906	WASHER,FLAT	EA	1
C-19	18	PAFZZ	5310-00-411-4385	MS17830-8C	96906	NUT,SLFLKG,HEX	EA	1
C-19	19	PAFZZ		5051981-1	57958	BRACKET,SUPPORT	EA	1
C-19	20	PAFZZ		5052043-1	57958	RAIL,SHROUD	EA	1
C-19	21	PAFZZ		5052023-2	57958	BRACKET,SHROUD	EA	1
C-19	22	PAFZZ		5052023-1	57958	BRACKET,SHROUD	EA	1
C-19	23	PAFZZ		C5114459-1	57958	GUIDE,ANTENNA	EA	1
C-19	24	PAFZZ	5305-00-992-5942	MS16996-11	96906	SCR,CAP,SKT HD	EA	6
C-19	25	PAFZZ	5310-00-595-6772	MS15795-808	96906	WASHER,FLAT	EA	10
C-19	26	PAFZZ	5305-00-071-2236	MS90725-15	96906	SCR,CAP,HEX HD	EA	4
C-19	27	PAFZZ	5310-00-241-6604	MS17830-4C	96906	NUT,SLFLKG,HEX	EA	4
C-19	28	PAFZZ	5310-00-208-9255	MS21044C3	96906	NUT,SLFLKG,HEX	EA	4
C-19	29	PAFZZ		5052044-101	57958	BASE	EA	1
C-19	30	PAFZZ		5052044-103	57958	CUSHION	EA	1
C-19	31	PAFZZ	5305-00-059-3662	MS51958-66	96906	SCR,MACH,PAN HD	EA	4
C-19	32	PAFZZ		5052044-1	57958	PLATE,ANT CUSH	EA	1
C-19	33	PAFZZ		C5075895-1	57958	GUIDE,ANTENNA	EA	1



PREFIX ALL REFERENCE DESIGNATIONS WITH: A13
Figure C-20. Filter Assy. 5052377-1

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 010612 FILTER ASSY. (57958) 5052377-1		
C-20	1	PAFZZ	5999-00-520-8087	5054776-6	57958	SHLD GSKT, ELEK	EA	1
C-20	2	PAFZZ		M83723-82G1831N	81349	CONN, RCPT, ELEC	EA	1
C-20	3	PAFZZ	5935-01-123-8014	M83723-60-118AC	81349	COVER, ELEC CONN	EA	1
C-20	4	PAFZZ	5305-00-054-5651	MS51957-17	96906	SCR, MACH, PAN HD	EA	5
C-20	5	XBOZZ		5052378-1	57958	HSG, FLTR ASSY	EA	1
C-20	6	PAFZZ	5310-00-058-3599	MS35335-57	96906	WASHER, LOCK	EA	2
C-20	7	PAFZZ	5940-00-740-7933	0213-1-1167-1	57958	TERMINAL, LUG	EA	2
C-20	8	PAFZZ	5310-00-595-6211	MS15795-803	96906	WASHER, FLAT	EA	6
C-20	9	PAFZZ	5305-00-066-7327	MS24693C28	96906	SCR, MACH, FL HD	EA	16
C-20	10	XBFZZ		5052379-2	57958	COV, FLTR ASSY	EA	1
C-20	11	PAFZZ	5310-00-934-9748	MS35649-244	96906	NUT, PLAIN, HEX	EA	5
C-20	12	PAFZZ	5935-00-448-5654	MS3474L18-32P	96906	CONN, RCPT, ELEC	EA	1
C-20	13	XBFZZ		5052379-1	57958	COV, FLTR ASSY	EA	1
C-20	14	PAFZZ		M15733-61-0013	81349	FILTER, RFI	EA	30
C-20	15	PAFZZ	5940-00-857-3414	NAS1746-2	80205	SPLICE, CNDCT	EA	16
C-20	16	PAFZZ	5310-00-933-8118	MS35338-135	96906	WASHER, LOCK	EA	4



56456

PREFIX ALL REFERENCE DESIGNATIONS WITH: A18
Figure C-21. Panel, Patch, Antenna 5053258-1

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 010613 PANEL, PATCH, ANTENNA (57958) 5053258-1		
C-21	1	XA		5051571-1	57958	PANEL,BLANK	EA	1
C-21	2	PAFZZ	5305-00-054-6653	MS51957-29	96906	SCR,MACH,PAN HD	EA	8
C-21	3	PAFZZ	5310-00-929-6395	MS35338-136	96906	WASHER,LOCK	EA	8
C-21	4	PAFZZ	5310-00-722-5998	MS15795-805	96906	WASHER,FLAT	EA	8
C-21	5	PAFZZ		5054730-1	57958	ADAPTER,CONN	EA	2
C-21	6	PAFZZ		5054644-1	57958	CABLE ASSY,RF	EA	1

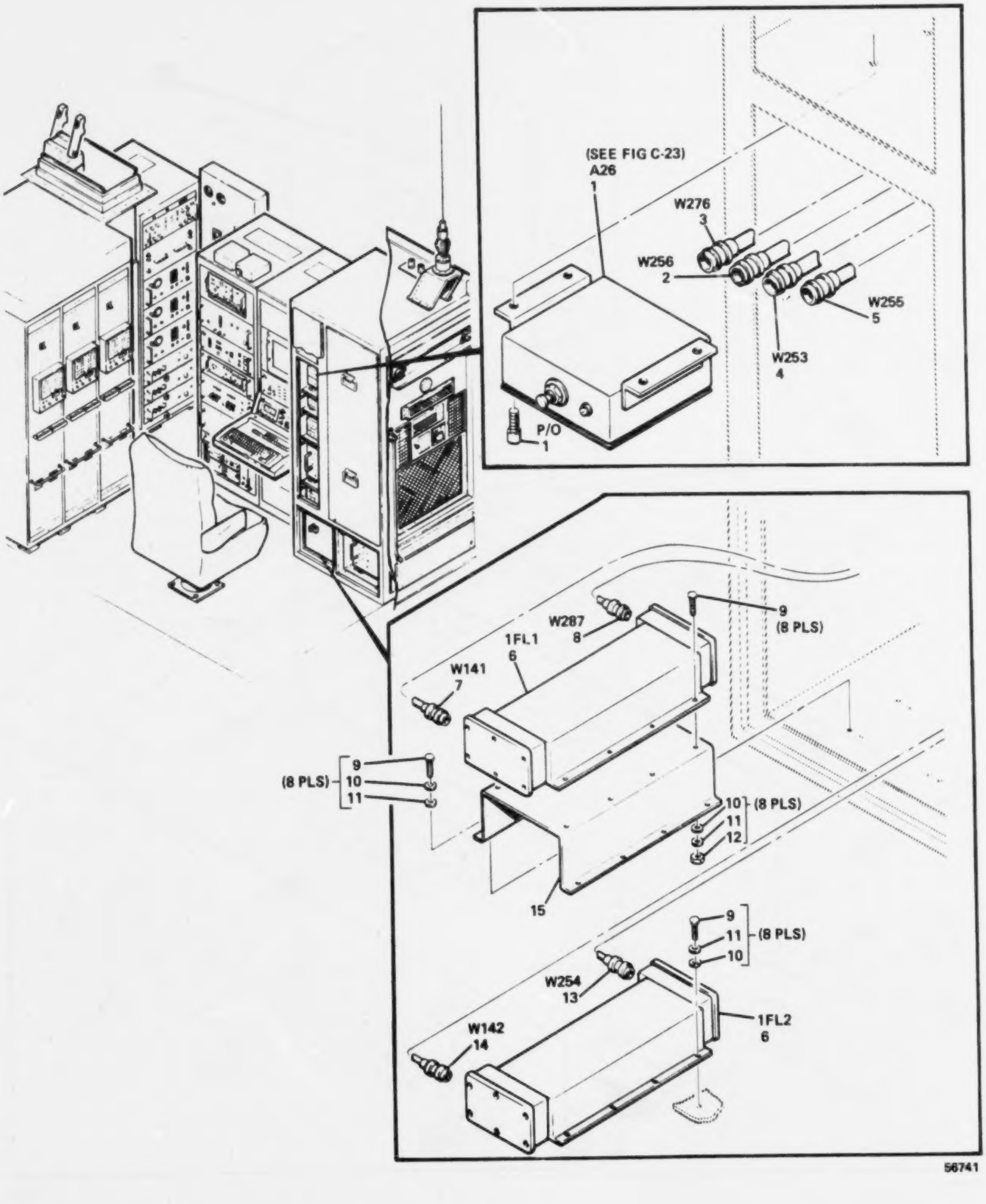


Figure C-22. Power Generator and Distribution Functional Group (Sheet 1 of 4)

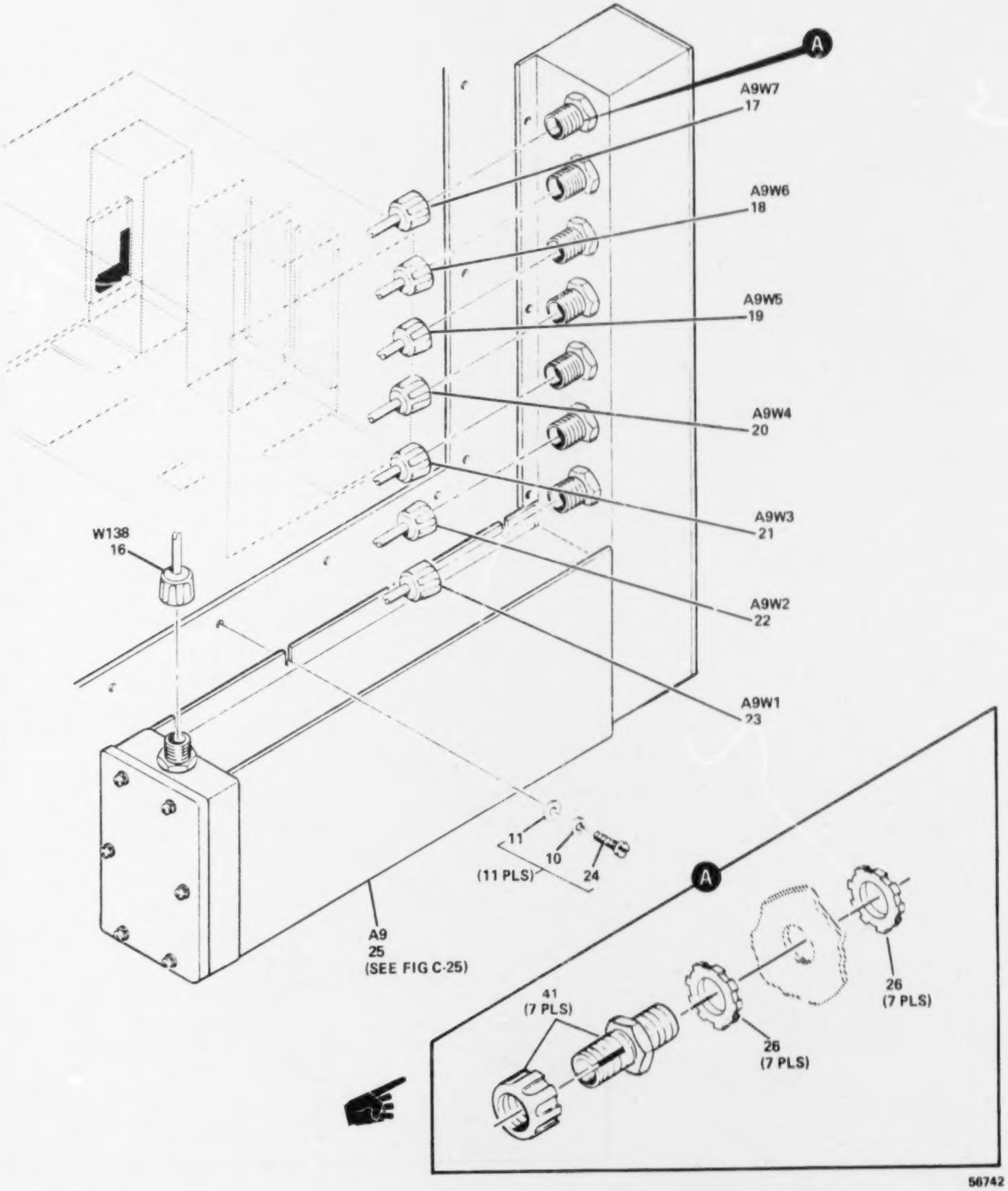


Figure C-22. Power Generator and Distribution Functional Group (Sheet 2 of 4)

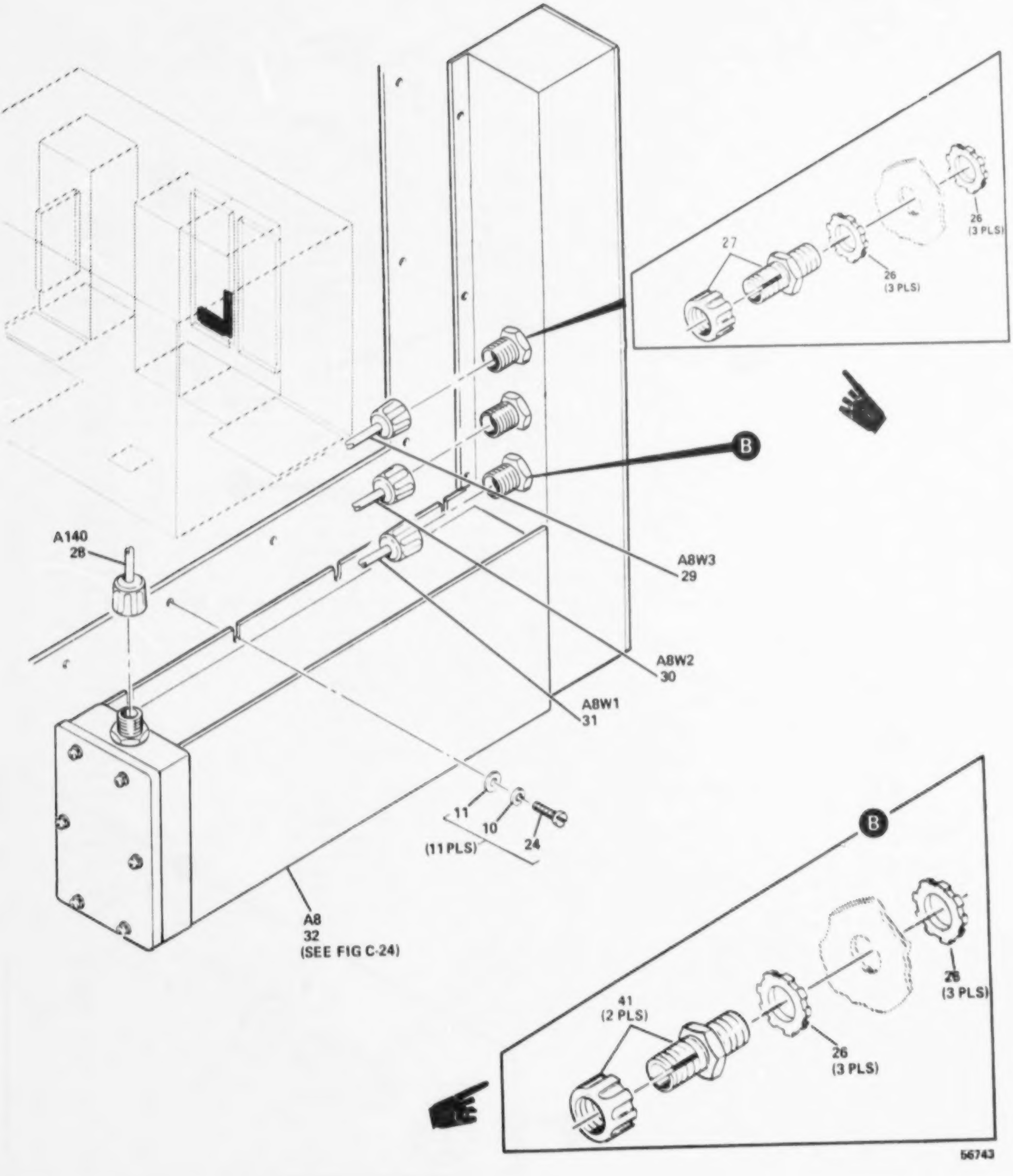


Figure C-22. Power Generator and Distribution Functional Group (Sheet 3 of 4)

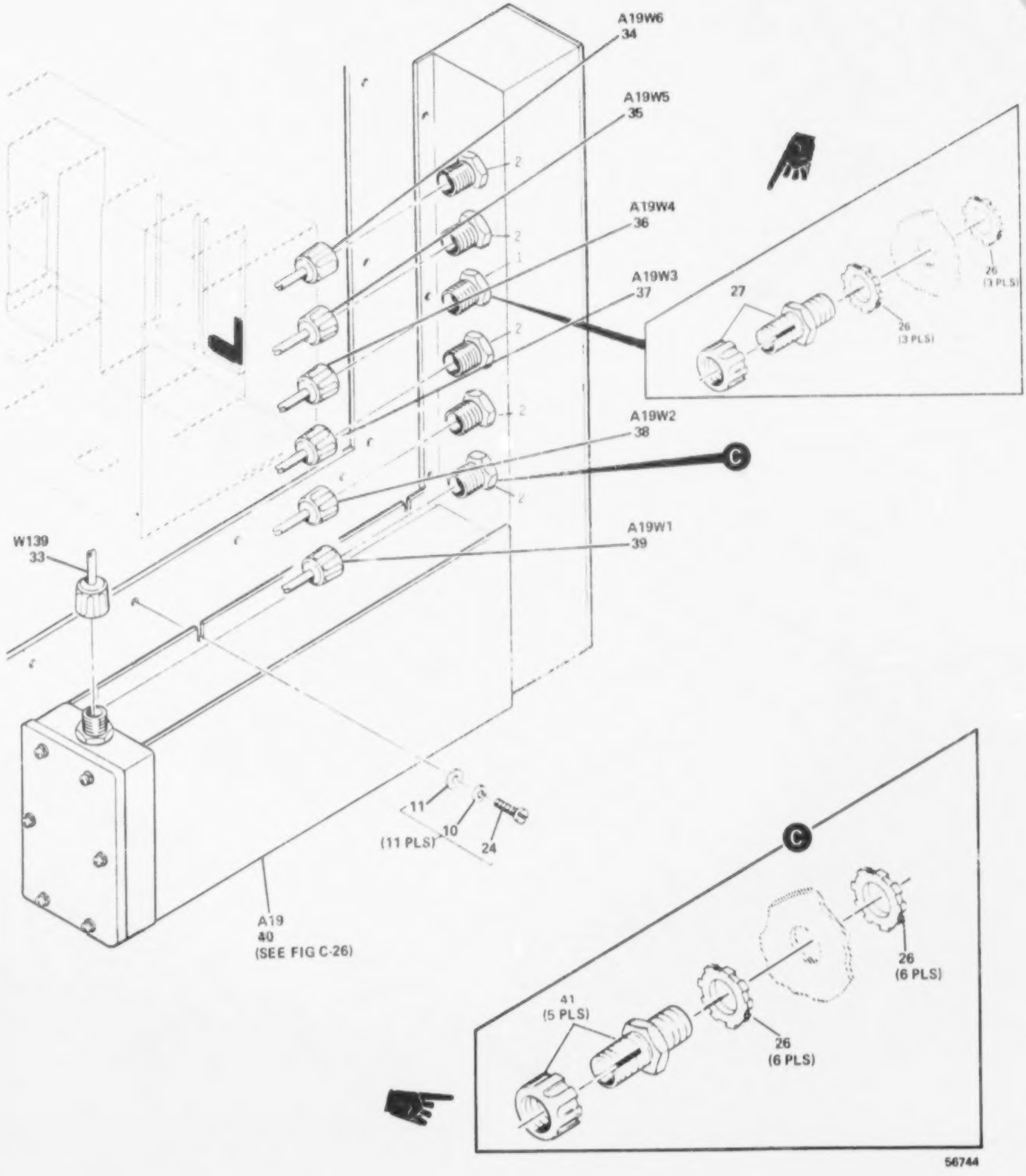
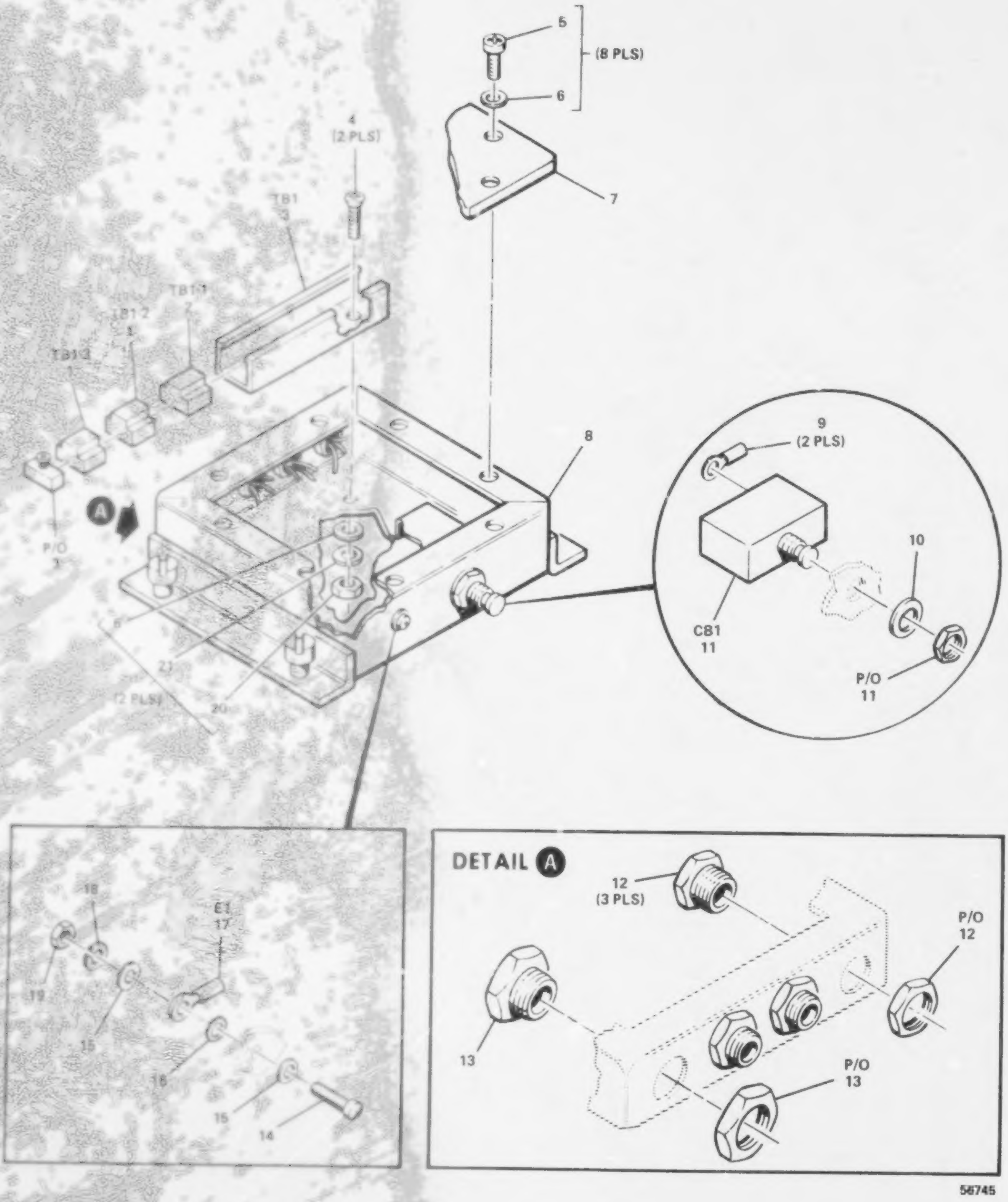


Figure C-22. Power Generator and Distribution Functional Group (Sheet 4 of 4)

SECTION II REPAIR PARTS LIST

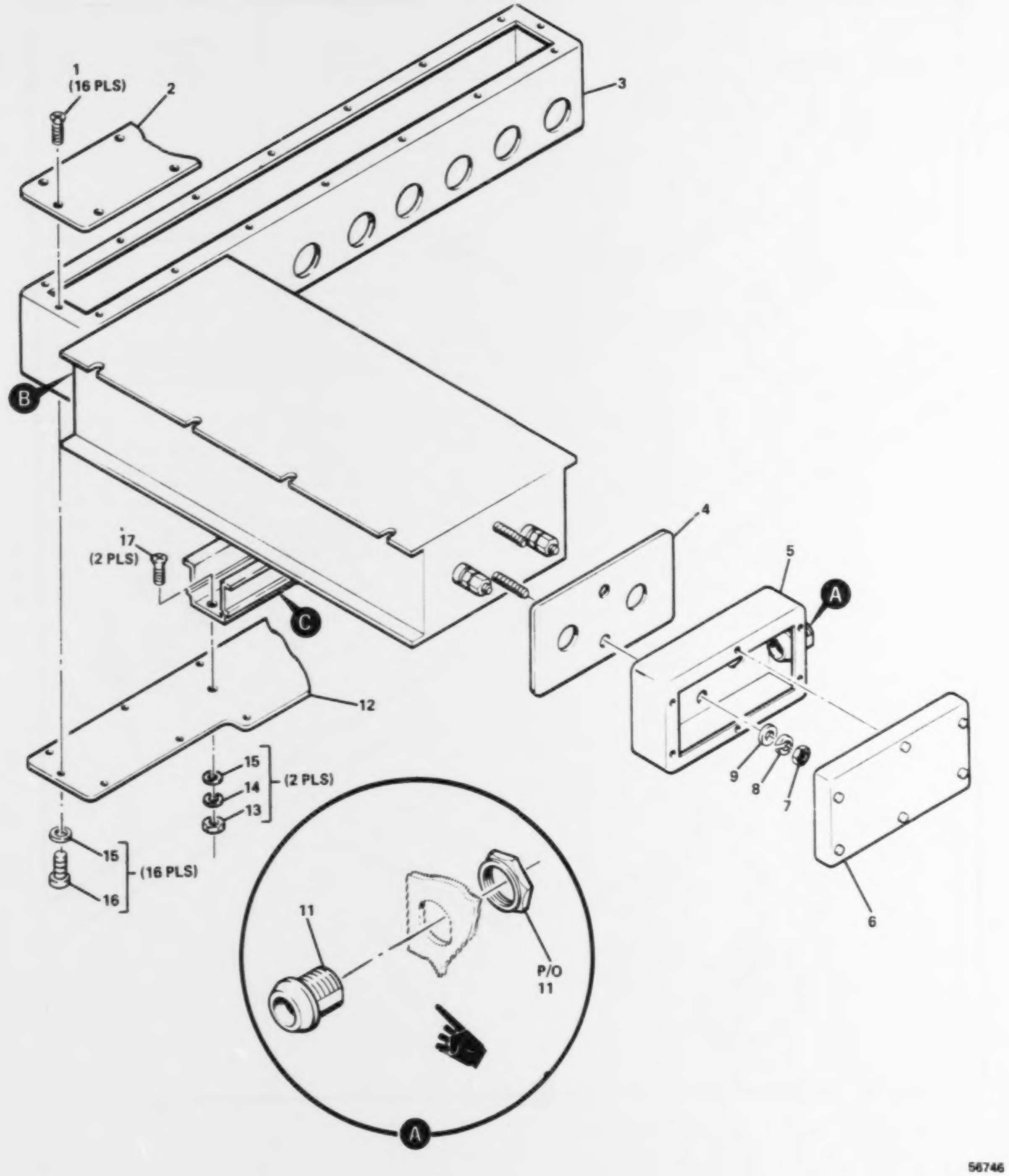
(1) ILLUS (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 0107 POWER GENERATOR AND DISTRIBUTION FUNCTIONAL GROUP		
C-22	1	PAFFF		5053274-1	57958	DISTRIBUTION BX	EA	1
C-22	2	XBHHH		C5077383-256	57958	CABLE ASSY,SP	EA	1
C-22	3	XBDDD		C5077381-276	57958	CABLE ASSY,SP		
C-22	4	XBDDD		C5077382-253	57958	CABLE ASSY,SP	EA	1
C-22	5	XBDDD		C5077381-255	57958	CABLE ASSY,SP		
C-22	6	PAFZZ		5052345-1	57958	FILTER,RFI	EA	2
C-22	7	XBDDD		C5077383-141	57958	CABLE ASSY,SP	EA	1
C-22	8	XBDDD		C5077384-287	57958	CABLE ASSY,SP	EA	1
C-22	9	PAOZZ	5305-00-059-3659	MS51958-63	96906	SCR,MACH,PAN HD	EA	24
C-22	10	PAFZZ	5310-00-595-6772	MS15795-806	96906	WASHER,FLAT	EA	49
C-22	11	PAFZZ	5310-00-933-8120	MS35338-138	96906	WASHER,LOCK	EA	49
C-22	12	PAFZZ	5310-00-934-9765	MS35650-304	96906	NUT,PLAIN,HEX	EA	8
C-22	13	XBDDD		C5077384-254	57958	CABLE ASSY,SP	EA	1
C-22	14	XBDDD		C5077383-142	57958	CABLE ASSY,SP	EA	1
C-22	15	XBFZZ		C5077441-1	57958	BRACKET,FILTER	EA	1
C-22	16	XBDDD		C5077383-138	57958	CABLE ASSY,SP	EA	1
C-22	17	XBDDD		5055536-8	57958	CABLE ASSY,PWR	EA	1
C-22	18	XBDDD		5055536-7	57958	CABLE ASSY,PWR	EA	1
C-22	19	XBDDD		5055536-6	57958	CABLE ASSY,PWR	EA	1
C-22	20	XBDDD		5055536-5	57958	CABLE ASSY,PWR	EA	1
C-22	21	XBDDD		5055536-4	57958	CABLE ASSY,PWR	EA	1
C-22	22	XBDDD		5055536-3	57958	CABLE ASSY,PWR	EA	1
C-22	23	XBDDD		5055536-2	57958	CABLE ASSY,PWR	EA	1
C-22	24	PAFZZ	5305-00-059-3660	MS51958-66	96906	SCR,MACH,PAN HD	EA	56
C-22	25	XBFFF		5053277-1	57958	DISTRIBUTION BX	EA	1
C-22	26	PAFZZ	5975-00-152-1075	5054520-2	57958	LOCKNUT,CONDUIT	EA	32
C-22	27	PAFZZ	5975-00-284-6978	5054519-1	57958	BSHG,STRAIN RLF	EA	2
C-22	28	XBDDD		C5077383-140	57958	CABLE ASSY,SP	EA	1
C-22	29	XBDDD		5055536-16	57958	CABLE ASSY,PWR	EA	1
C-22	30	XBDDD		5055536-10	57958	CABLE ASSY,PWR	EA	1
C-22	31	XBDDD		5055536-9	57958	CABLE ASSY,PWR	EA	1
C-22	32	XBFFF		5053277-3	57958	DISTRIBUTION BX	EA	1
C-22	33	XBDDD		C5077383-139	57958	CABLE ASSY,SP	EA	1
C-22	34	XBDDD		5055536-15	57958	CABLE ASSY,PWR	EA	1
C-22	35	XBDDD		5055536-1	57958	CABLE ASSY,PWR	EA	1
C-22	36	XBDDD		5055536-14	57958	CABLE ASSY,PWR	EA	1
C-22	37	XBDDD		5055536-13	57958	CABLE ASSY,PWR	EA	1
C-22	38	XBDDD		5055536-12	57958	CABLE ASSY,PWR	EA	1
C-22	39	XBDDD		5055536-11	57958	CABLE ASSY,PWR	EA	1
C-22	40	XBFFF		5053277-2	57958	DISTRIBUTION BX	EA	1
N C-22	41	PAFZZ		5054519-2	57958	BSHG,STRAIN RLF	EA	14



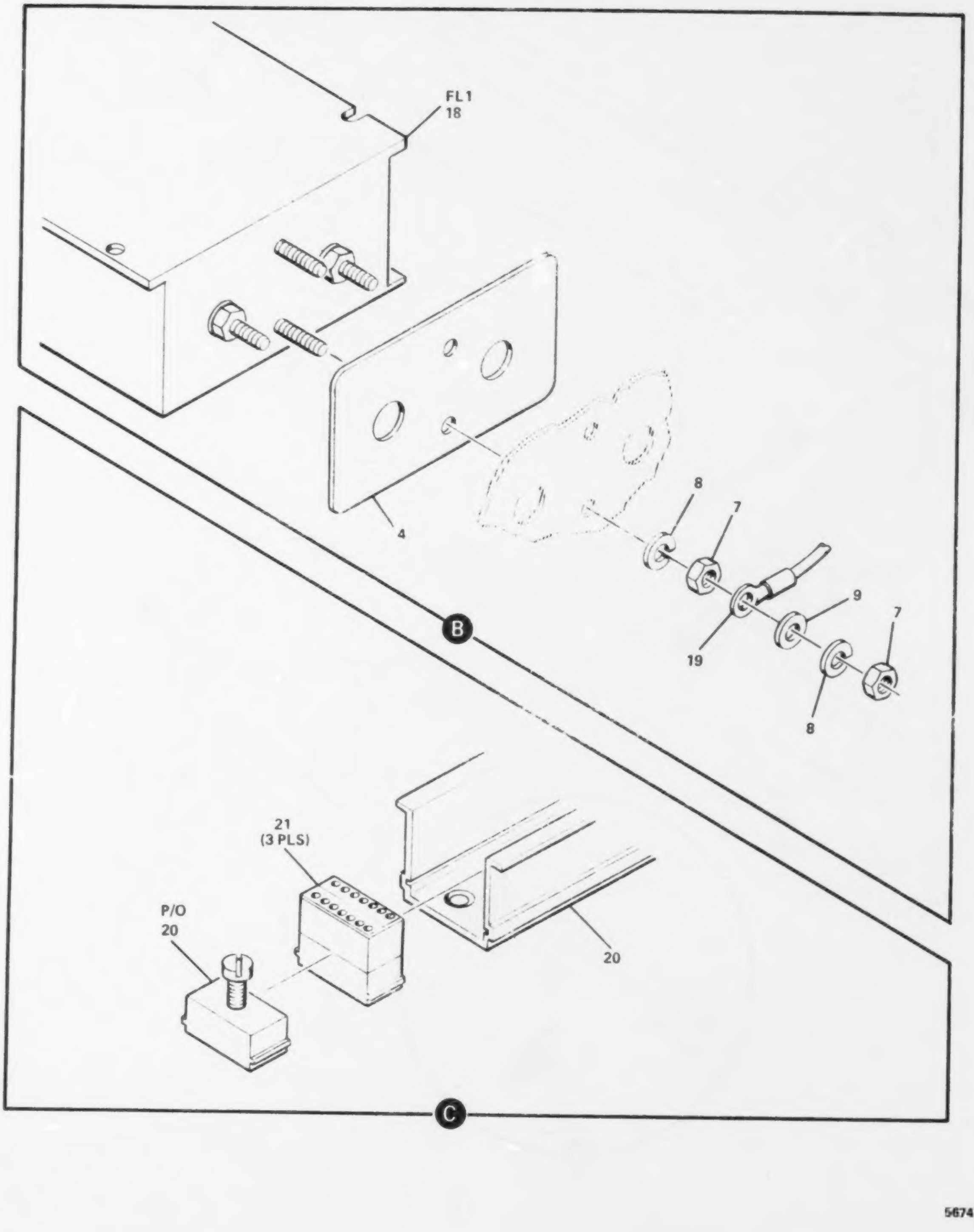
PREFIX ALL REFERENCE DESIGNATIONS WITH: A26
Figure C-23. Distribution Box, AC 5053274-1

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 010701 DISTRIBUTION BOX,AC (57958) 5053274-1		
C-23	1	PAFZZ	5940-00-307-9389	M81714-3-AA1	81349	TERM JCT BLOCK	EA	2
C-23	2	PAFZZ	5940-00-606-4190	M81714-3AB2	81349	TERM JCT BLOCK	EA	1
C-23	3	PAFZZ	5975-01-095-3382	M81714-5-3	81349	TRACK,TJB	EA	1
C-23	4	PAFZZ	5305-00-727-8832	MS51959-29	96906	SCR,MACH,FL HD	EA	2
C-23	5	PAFZZ	5305-00-054-6654	MS51957-30	96906	SCR,MACH,PAN HD	EA	8
C-23	6	PAFZZ	5310-00-722-5998	MS15795-805	96906	WASHER,FLAT	EA	10
C-23	7	XBFFF		5051943-1	57958	COVER,DISTR BOX	EA	1
C-23	8	XBFFF		5051900-1	57958	CHAS,ELEC EQPT	EA	1
C-23	9	PAFZZ	5940-01-013-8288	MS25036-107	96906	TERMINAL,LUG	EA	2
C-23	10	PAFZZ	5310-00-184-8628	MS15795-816	96906	WASHER,FLAT	EA	1
C-23	11	PAFZZ	5925-00-444-0595	5054860-7	57958	CIRCUIT BREAKER	EA	1
C-23	12	FAFZZ		5054681-1	57958	BOX CONN,ELEC	EA	3
C-23	13	PAFZZ		5054681-2	57958	BOX CONN,ELEC	EA	1
C-23	14	PAFZZ	5305-00-054-6669	MS51957-44	96906	SCR,MACH,PAN HD	EA	1
C-23	15	PAHZZ	5310-00-880-5978	MS15795-807	96906	WASHER,FLAT	EA	2
C-23	16	PAFZZ	5310-00-614-3552	MS35335-59	96906	WASHER,LOCK	EA	1
C-23	17	PAFZZ	5940-00-143-4774	MS25036-153	96906	TERMINAL,LUG	EA	1
C-23	18	PAFZZ	5310-01-067-9589	MS35338-137	96906	WASHER,LOCK	EA	1
C-23	19	PAFZZ	5310-00-934-9759	MS35649-284	96906	NUT,PLAIN,HEX	EA	1
C-23	20	PAFZZ	5310-00-934-9761	MS35649-264	96906	NUT,PLAIN,HEX	EA	2
C-23	21	PAFZZ	5310-00-929-6395	MS35338-136	96906	WASHER,LOCK	EA	2



PREFIX ALL REFERENCE DESIGNATIONS WITH: A8
Figure C-24. Distribution Box 5053277-3 (Sheet 1 of 2)

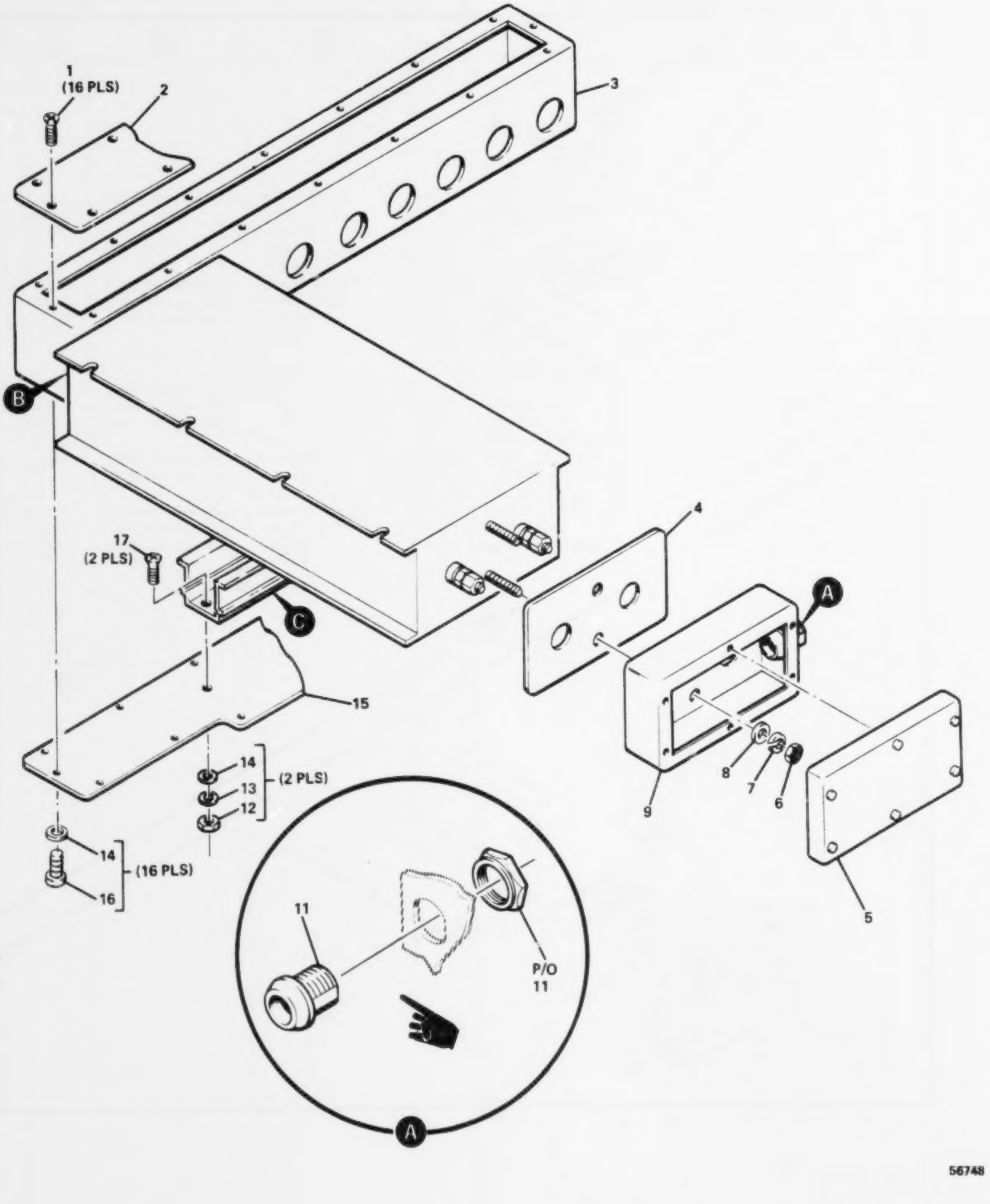


56747

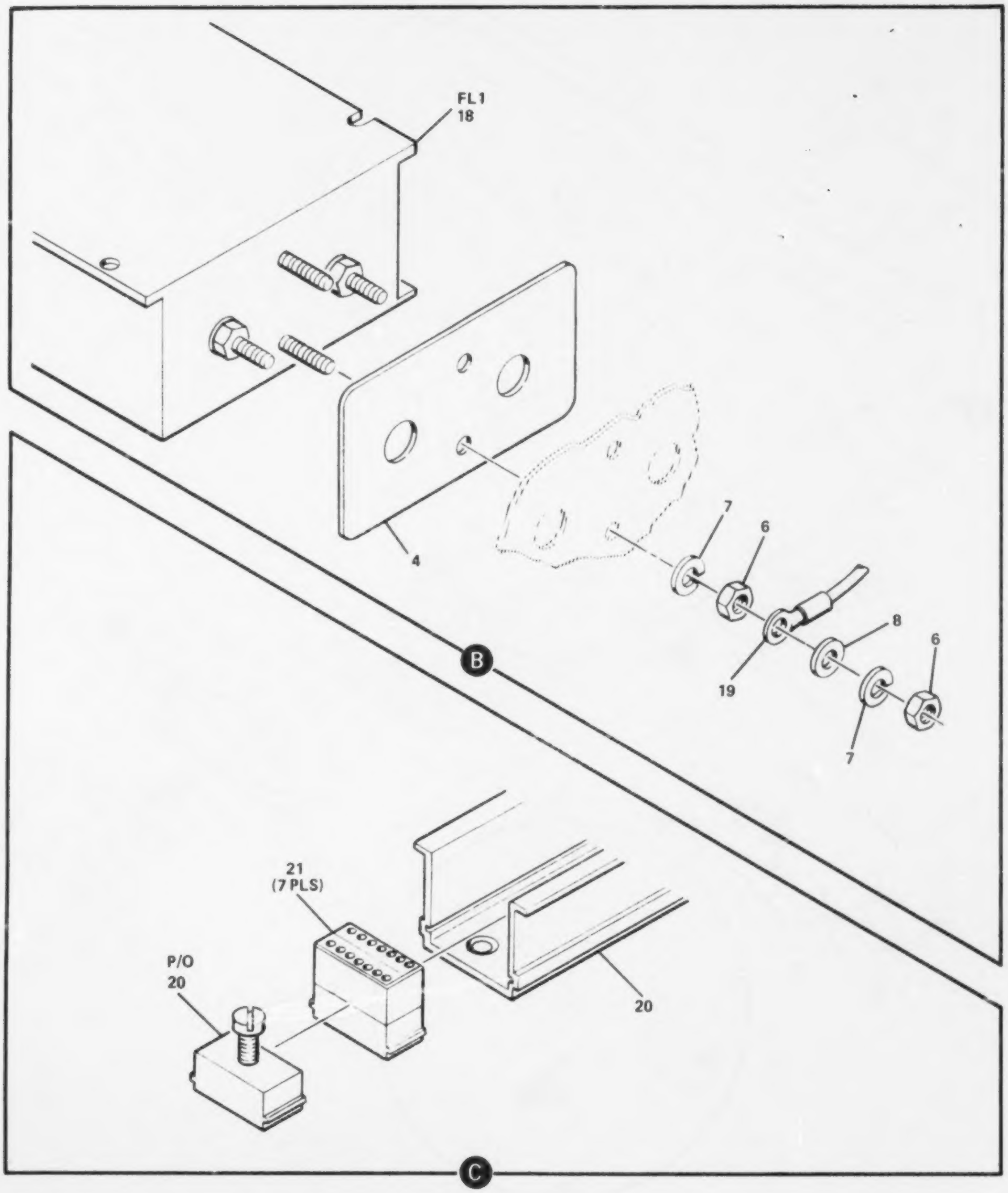
Figure C-24. Distribution Box 5053277-3 (Sheet 2 of 2)

SECTION II REPAIR PARTS LIST

	(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
							GROUP 010703 DISTRIBUTION BOX (57958) 5053277-3		
	C-24	1	PAFZZ	5305-00-958-2918	MS24693C26	96906	SCR,MACH,FL HD	EA	16
	C-24	2	XBFZZ		5055277-2	57958	COVER,DISTR BOX	EA	1
	C-24	3	XBFZZ		5055513-3	57958	JUNCTION BOX	EA	1
	C-24	4	XA		5055289-1	57958	SHLD GSKT,ELEK	EA	2
	C-24	5	XA		5055284-1	57958	ENCL,DISTR BOX	EA	1
	C-24	6	XA		5055285-1	57958	COVER,DISTR BOX	EA	1
C	C-24	7	PAFZZ	5310-00-400-5503	MS35650-3254	96906	NUT,PLAIN,HEX	EA	10
	C-24	8	PAFZZ	5310-00-933-8121	MS35338-139	96906	WASHER,LOCK	EA	8
	C-24	9	PAFZZ	5310-00-582-5677	MS15795-810	96906	WASHER,FLAT	EA	16
C									
	C-24	11	XA		5054544-1	57958	FITTING,PNL-CND	EA	1
	C-24	12	XBFZZ		5055520-1	57958	COVER,DISTR BX	EA	1
	C-24	13	PAFZZ	5310-00-934-9761	MS35649-264	96906	NUT,PLAIN,HEX	EA	2
	C-24	14	PAFZZ	5310-00-929-6395	MS35338-136	96906	WASHER,LOCK	EA	2
	C-24	15	PAFZZ	5310-00-722-5998	MS15795-805	96906	WASHER,FLAT	EA	18
	C-24	16	PAFZZ	5305-00-054-6652	MS51957-28	96906	SCR,MACH,PAN HD	EA	16
	C-24	17	PAFZZ	5305-00-066-7327	MS24693C28	96906	SCR,MACH,FL HD	EA	2
	C-24	18	XA		C5077568-1	57958	FILTER,RFI	EA	1
	C-24	19	PAFZZ	5940-00-230-0515	MS25036-154	96906	TERMINAL,LUG	EA	6
C	C-24	20	PAFZZ	5975-01-093-0341	M81714/5-6	81349	TRACK,TJB	EA	1
C	C-24	21	PAFZZ	5940-00-307-9389	M81714-3-AA1	81349	TERM JCT BLOCK	EA	3



PREFIX ALL REFERENCE DESIGNATIONS WITH: A9
Figure C-25. Distribution Box 5053277-1 (Sheet 1 of 2)

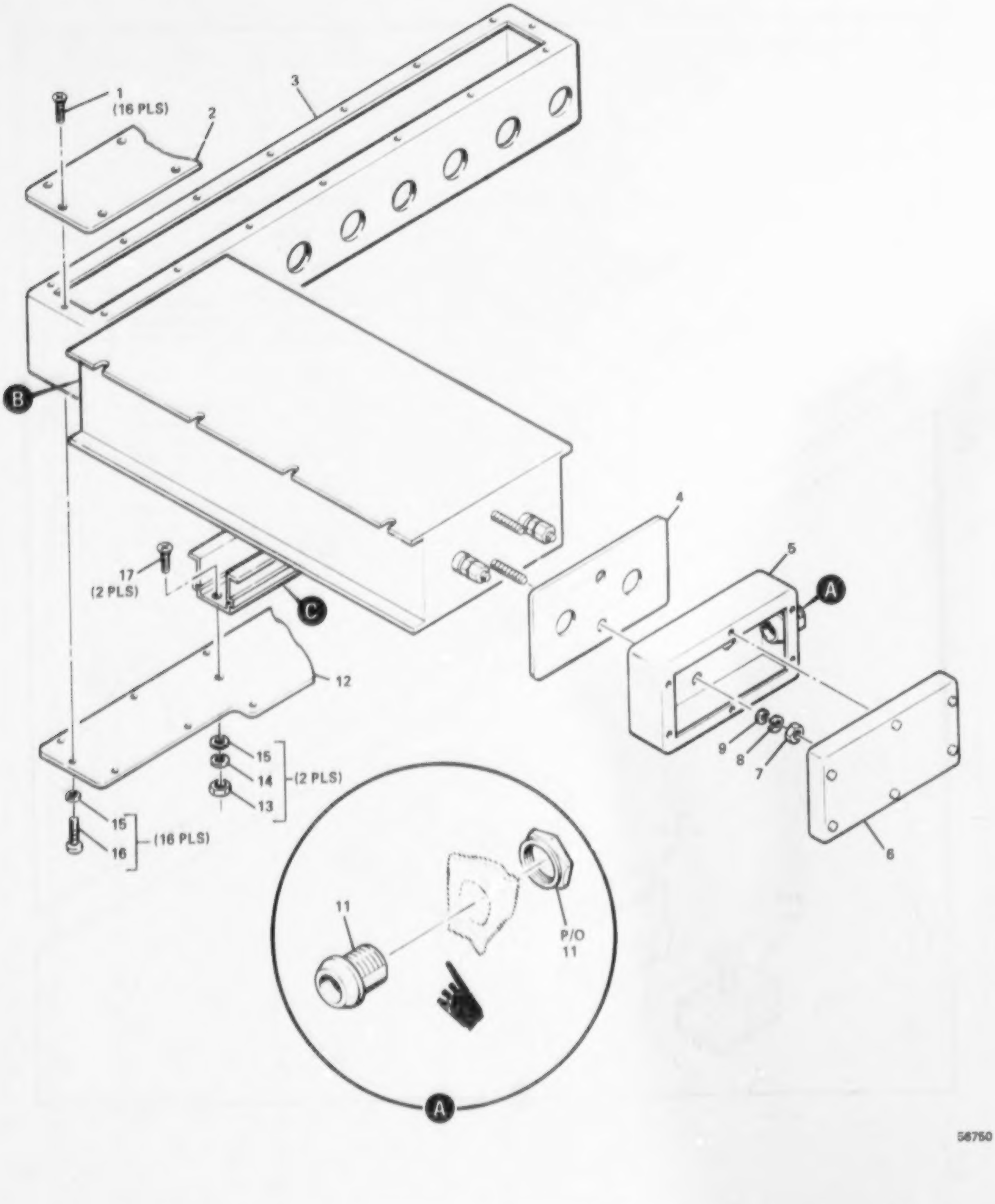


56749

Figure C-25. Distribution Box 5053277-1 (Sheet 2 of 2)

SECTION II REPAIR PARTS LIST

	(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
							GROUP 010704 DISTRIBUTION BOX (57958) 5053277-1		
	C-25	1	PAFZZ	5305-00-958-2918	MS24693C26	96906	SCR,MACH,FL HD	EA	16
	C-25	2	XBFZZ		5055277-2	57958	COVER,DISTR BOX	EA	1
	C-25	3	XBFZZ		5055513-1	57958	JUNCTION BOX	EA	1
	C-25	4	XA		5055289-1	57958	SHLD GSKT,ELEK	EA	2
	C-25	5	XA		5055285-1	57958	COVER,DISTR BOX	EA	1
	C-25	6	PAFZZ	5310-00-400-5503	MS35650-3254	96906	NUT,PLAIN,HEX	EA	10
	C-25	7	PAFZZ	5310-00-933-8121	MS35338-139	96906	WASHER,LOCK	EA	8
	C-25	8	PAFZZ	5310-00-582-5677	MS15795-810	96906	WASHER,FLAT	EA	16
	C-25	9	XA		5055284-1	57958	ENCL.DISTR BOX	EA	1
C									
	C-25	11	XA		5054544-1	57958	FITTING,PNL-CND	EA	1
	C-25	12	PAFZZ	5310-00-934-9761	MS35649-264	96906	NUT,PLAIN,HEX	EA	2
	C-25	13	PAFZZ	5310-00-929-6395	MS35338-136	96906	WASHER,LOCK	EA	2
	C-25	14	PAFZZ	5310-00-722-5998	MS15795-805	96906	WASHER,FLAT	EA	18
	C-25	15	XBFZZ		5055520-1	57958	COVER,DISTR BX	EA	1
	C-25	16	PAFZZ	5305-00-054-6652	MS51957-28	96906	SCR,MACH,PAN HD	EA	16
	C-25	17	PAHZZ	5305-00-066-7328	MS24693C27	96906	SCR,MACH,FL HD	EA	2
	C-25	18	XA		C5077568-1	57958	FILTER,RFI	EA	1
	C-25	19	PAFZZ	5940-00-230-0515	MS25036-154	96906	TERMINAL,LUG	EA	6
C	C-25	20	PAFZZ	5975-01-093-0341	M8171/5-6	81349	TRACK,TJB	EA	1
C	C-25	21	PAFZZ	5940-00-307-9389	M81714-3-AA1	81349	TERM JCT BLOCK	EA	7



PREFIX ALL REFERENCE DESIGNATIONS WITH: A19
Figure C-26. Distribution Box 5053277-2 (Sheet 1 of 2)

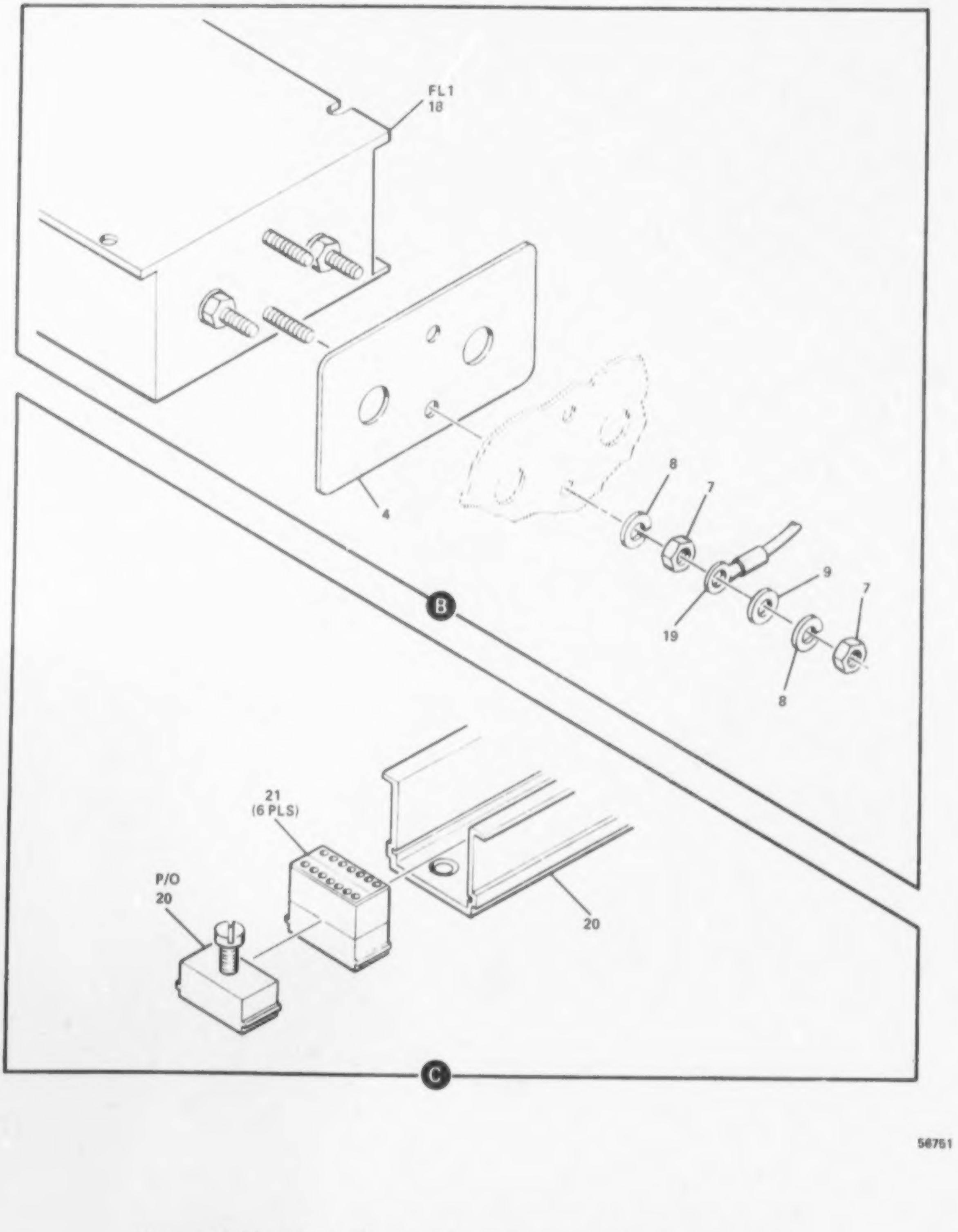


Figure C-26. Distribution Box 5053277-2 (Sheet 2 of 2)

SECTION II REPAIR PARTS LIST

	(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
							GROUP 010705 DISTRIBUTION BOX (57958) 5055277-2		
	C-26	1	PAFZZ	5305-00-958-2912	MS24693C26	96906	SCR,MACH,FL HD	EA	16
	C-26	2	XBFZZ		5055277-2	57958	COVER,DISTR BOX	EA	1
	C-26	3	XBFZZ		5055513-2	57958	JUNCTION BOX	EA	1
	C-26	4	XA		5055289-1	57958	SHLD GSKT,ELEK	EA	2
	C-26	5	XA		5055284-1	57958	ENCL,DISTR BOX	EA	1
	C-26	6	XA		5055285-1	57958	COVER,DISTR BOX	EA	1
C	C-26	7	PAFZZ	5310-00-400-5503	MS35650-3254	96906	NUT,PLAIN,HEX	EA	10
	C-26	8	PAFZZ	5310-00-933-8121	MS35338-139	96906	WASHER,LOCK	EA	8
	C-26	9	PAFZZ	5310-00-882-5677	MS15795-810	96906	WASHER,FLAT	EA	16
C									
	C-26	11	XA		5054544-1	57958	FITTING,HNES GND	EA	1
	C-26	12	XBFZZ		5069520-1	57958	COVER,DISTR BX	EA	1
	C-26	13	PAFZZ	5310-00-934-9761	MS35649-244	96906	NUT,PLAIN,HEX	EA	2
	C-26	14	PAFZZ	5310-00-929-6395	MS35338-138	96906	WASHER,LOCK	EA	2
	C-26	15	PAFZZ	5310-00-722-5998	MS15795-805	96906	WASHER,FLAT	EA	18
	C-26	16	PAFZZ	5305-00-054-6652	MS51957-28	96906	SCR,MACH,PAN HD	EA	16
	C-26	17	PAFZZ	5305-00-066-7327	MS24693C28	96906	SCR,MACH,FL HD	EA	2
	C-26	18	XA		C5077568-1	57958	FILTER,RFI	EA	1
	C-26	19	PAFZZ	5940-00-230-0515	MS25036-154	96906	TERMINAL,LUG	EA	6
C	C-26	20	PAFZZ	5975-01-093-0341	M81714/5-1	81349	TRACK,TJB	EA	1
C	C-26	21	PAFZZ	5940-00-307-9389	M81714/3-AA1	81349	TERM JCT BLOCK	EA	6

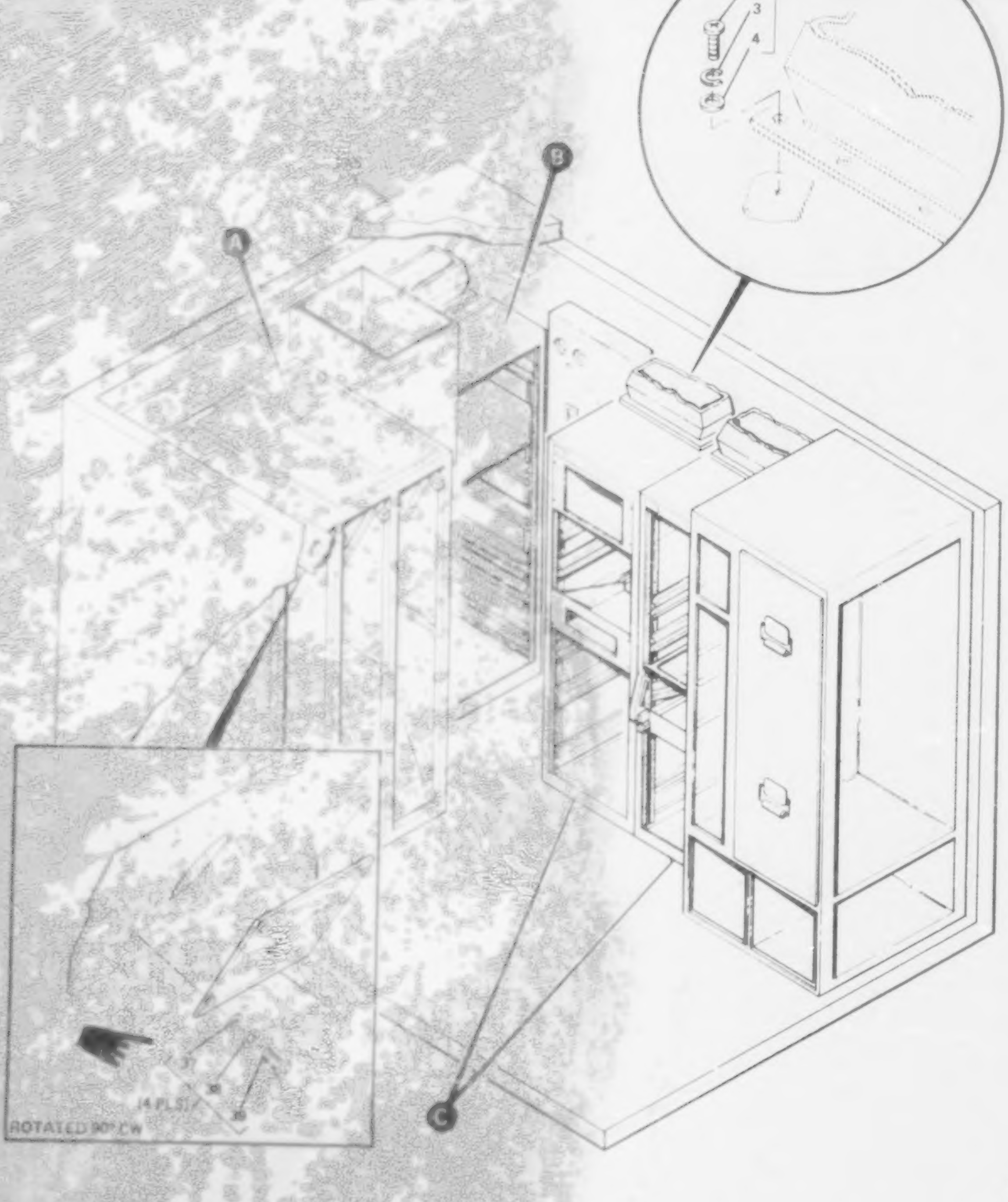


Figure C-27. Shelter Functional Group (Sheet 1 of 15)

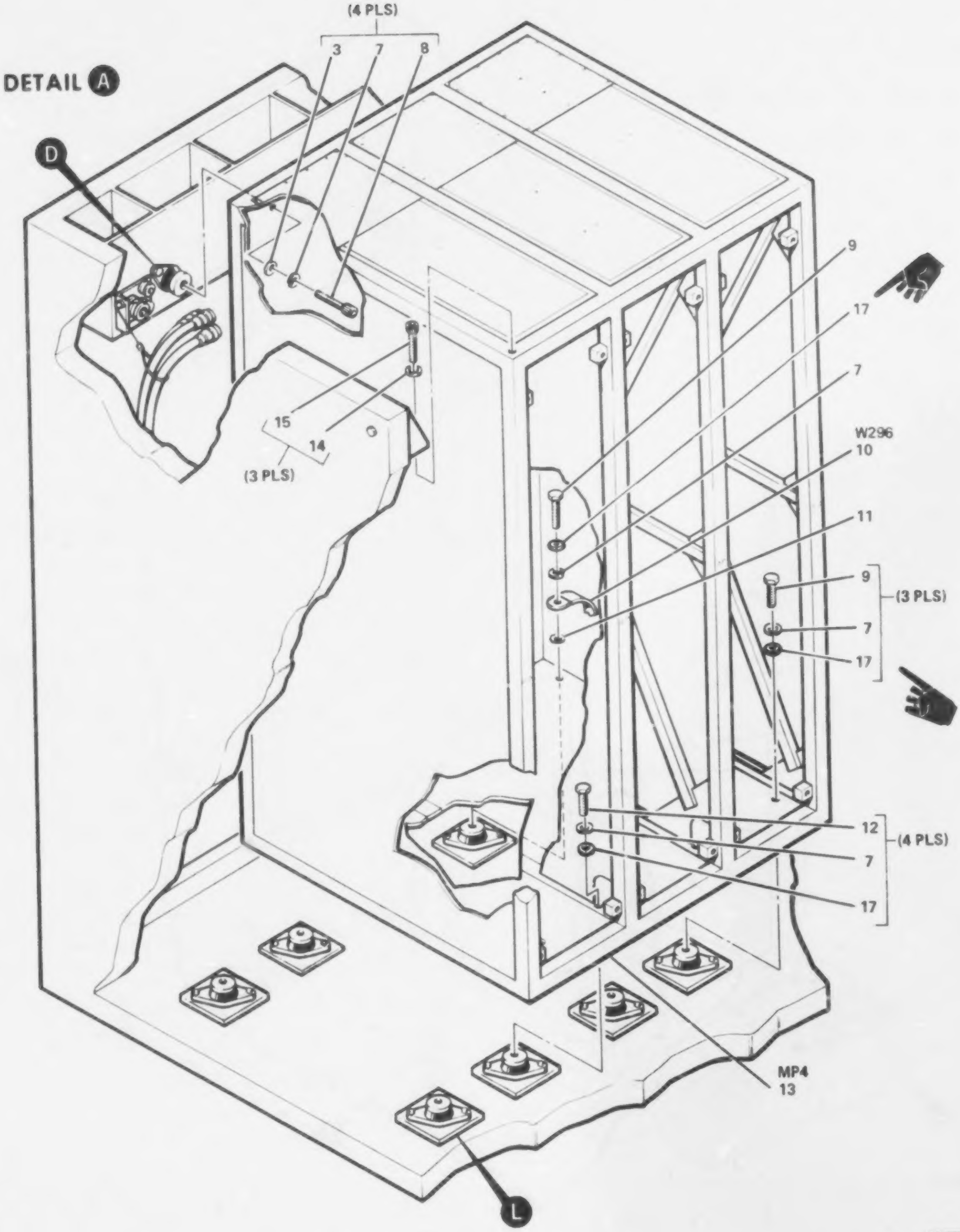


Figure C-27. Shelter Functional Group (Sheet 2 of 15)

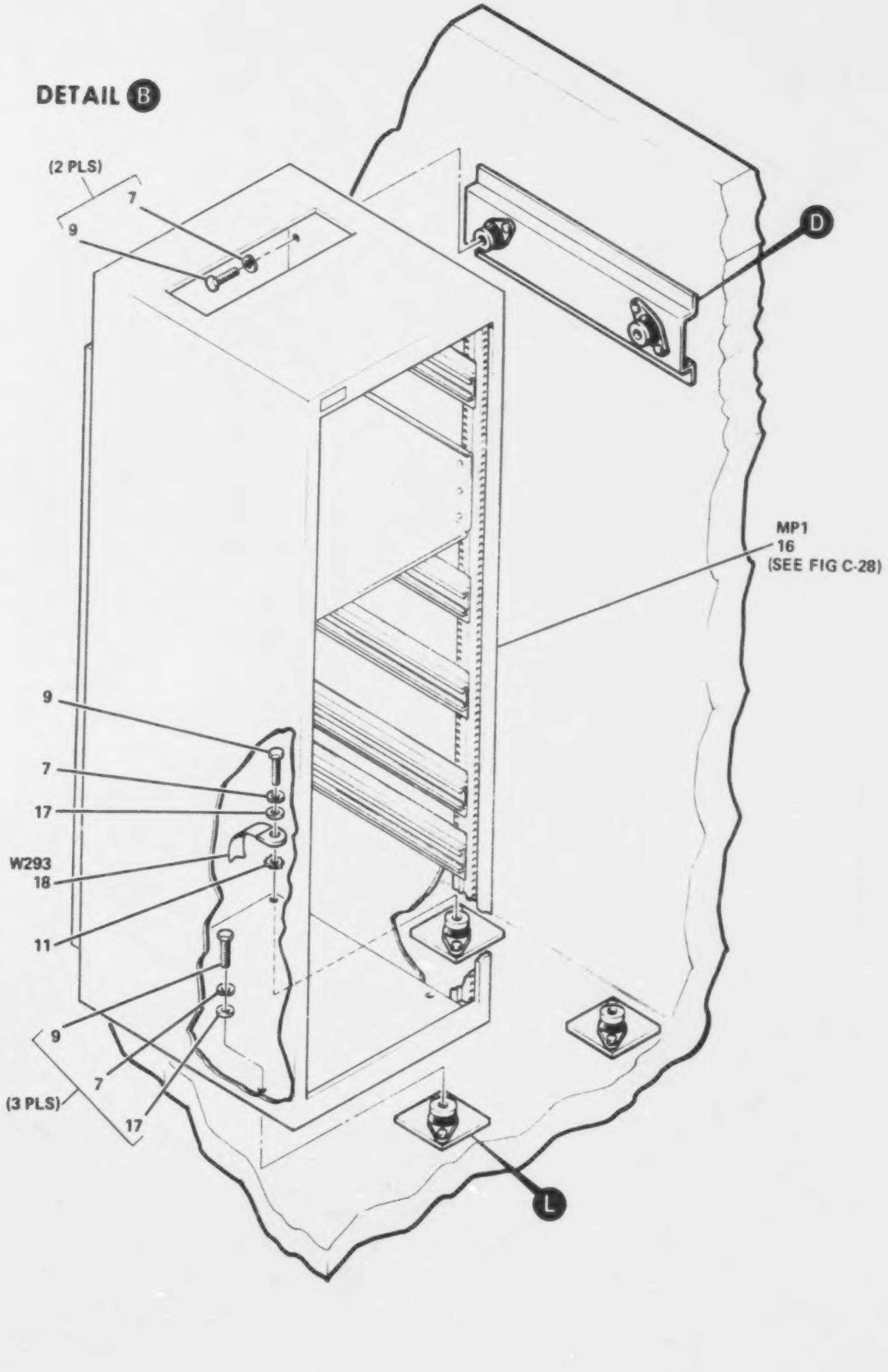


Figure C-27. Shelter Functional Group (Sheet 3 of 15)

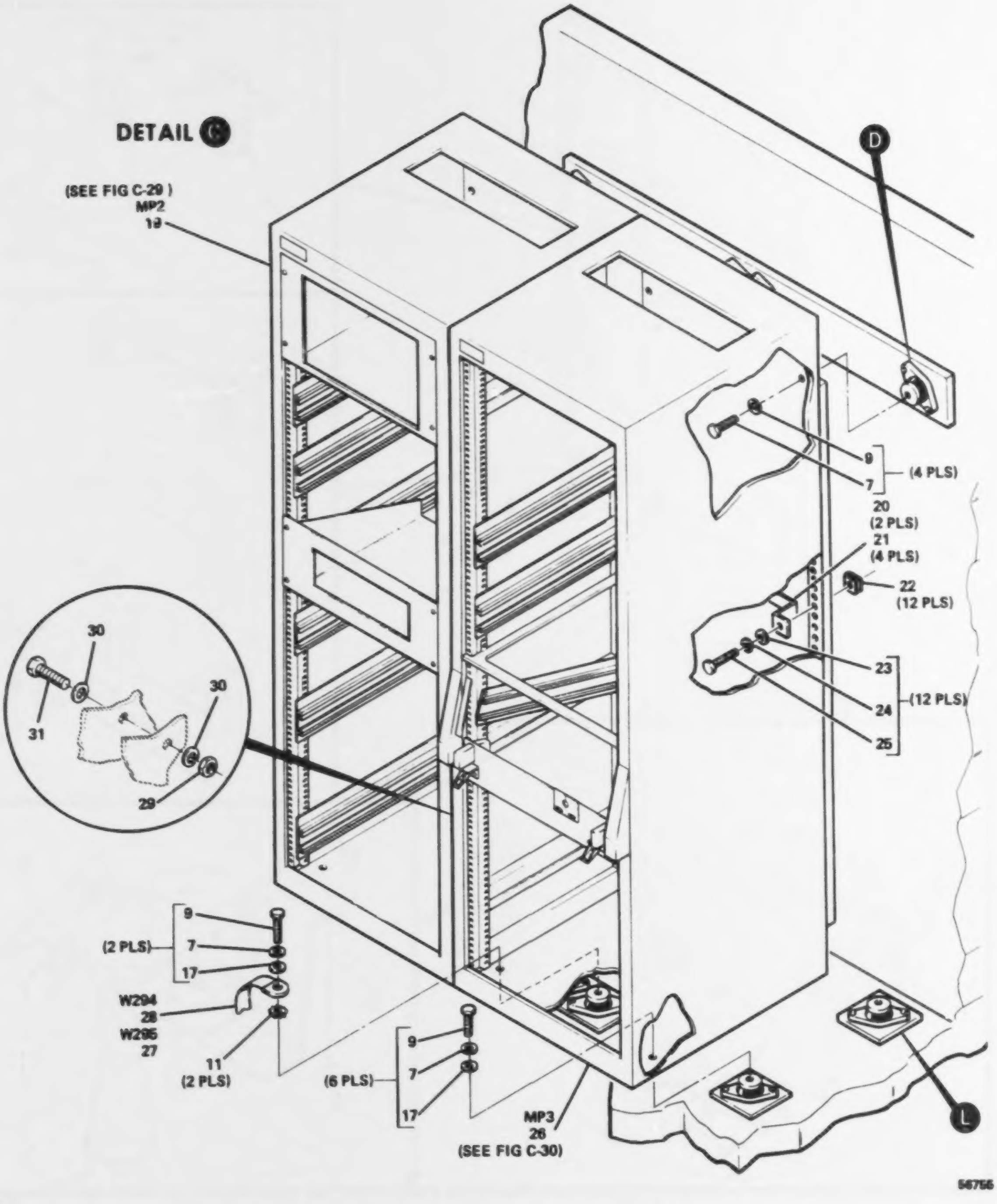


Figure C-27. Shelter Functional Group (Sheet 4 of 15)

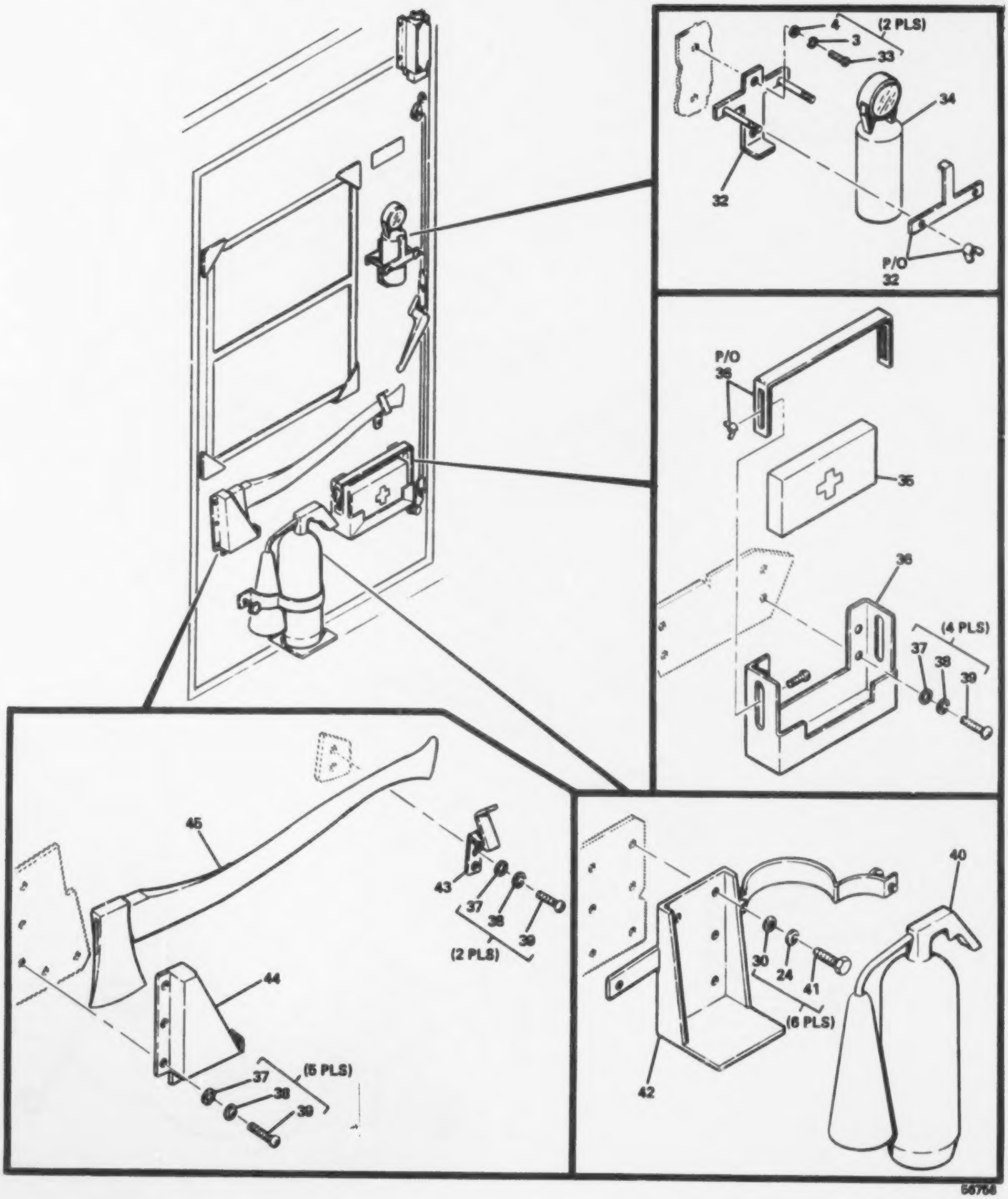


Figure C-27. Shelter Functional Group (Sheet 5 of 15)

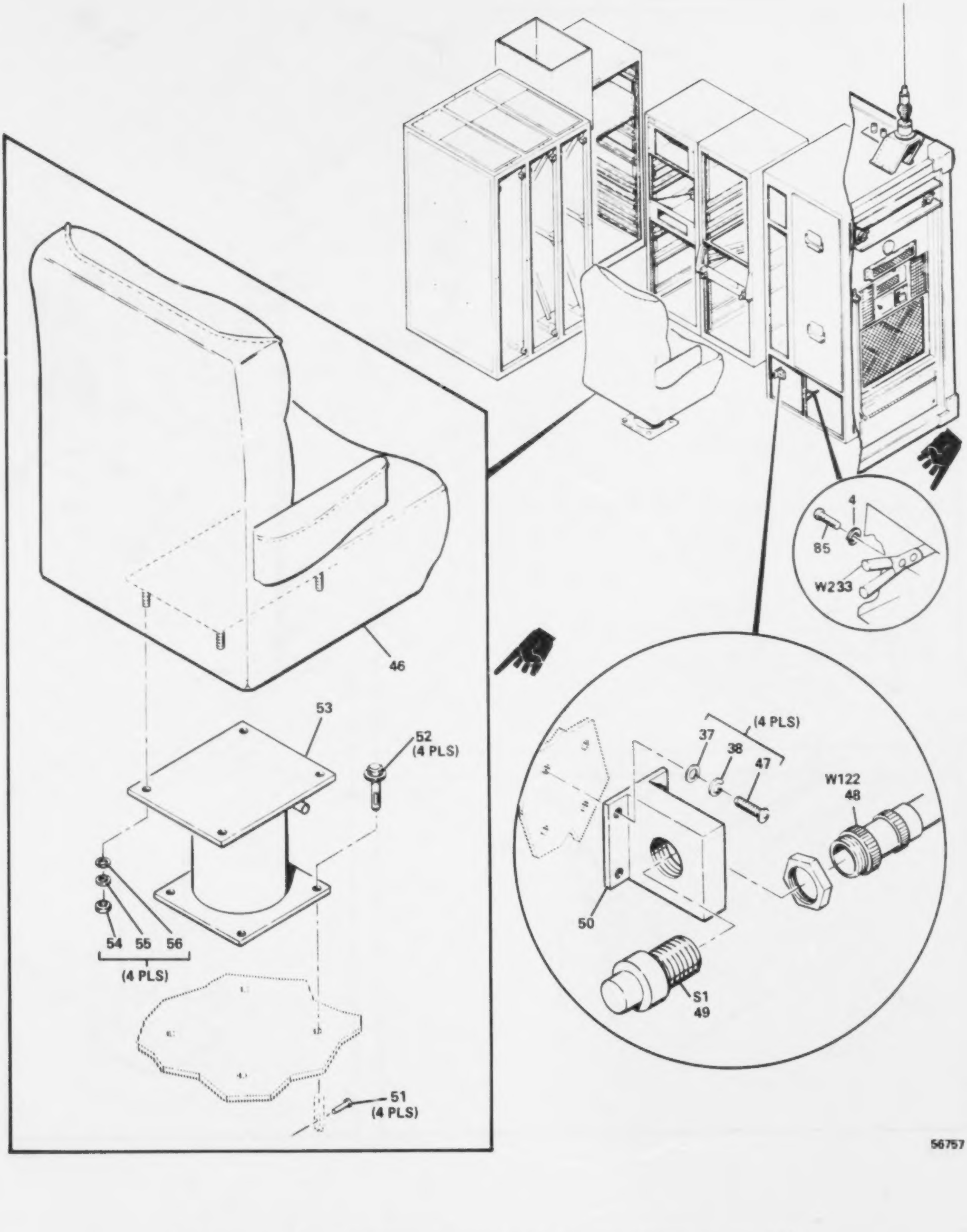


Figure C-27. Shelter Functional Group (Sheet 6 of 15)

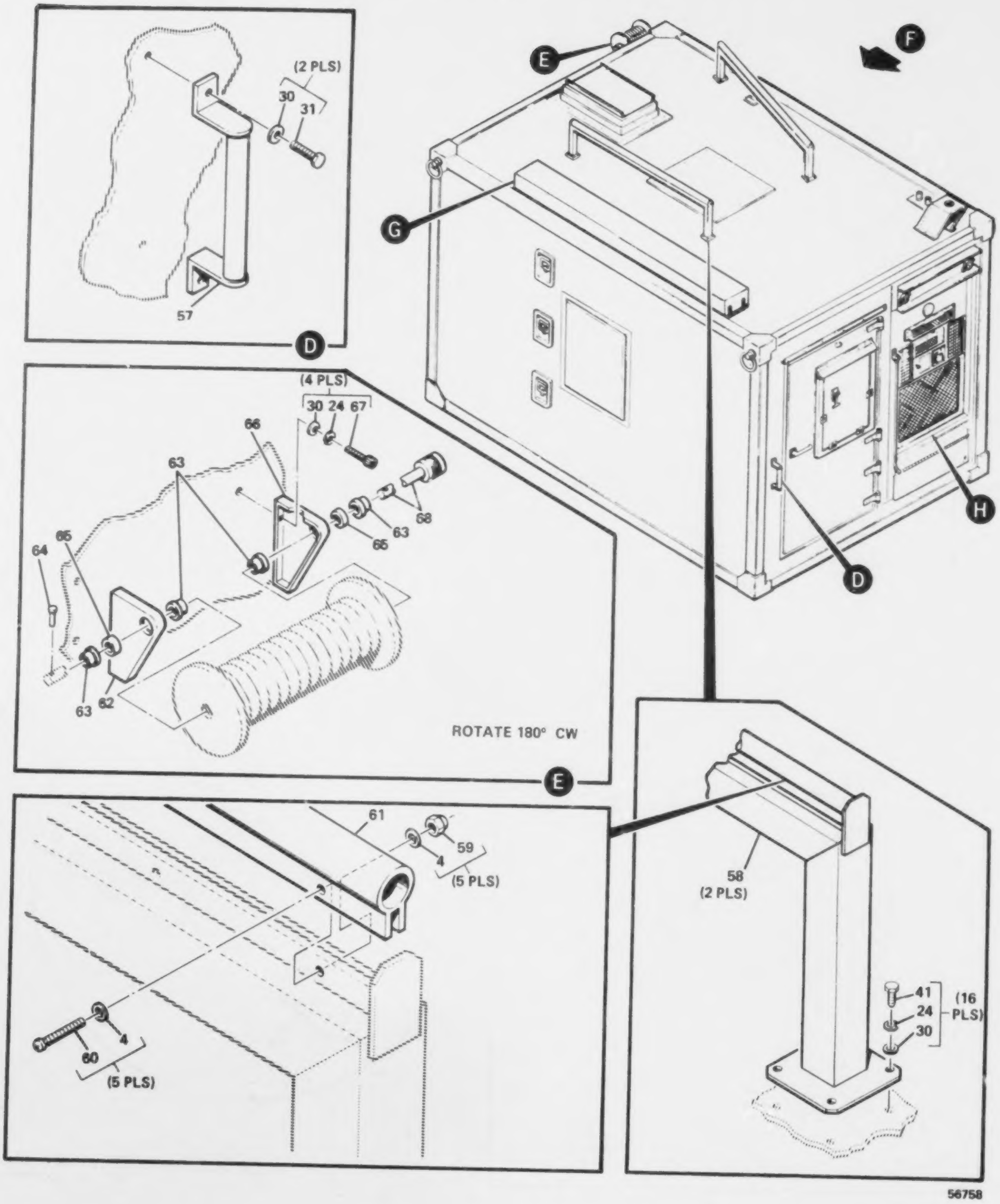


Figure C-27. Shelter Functional Group (Sheet 7 of 15)

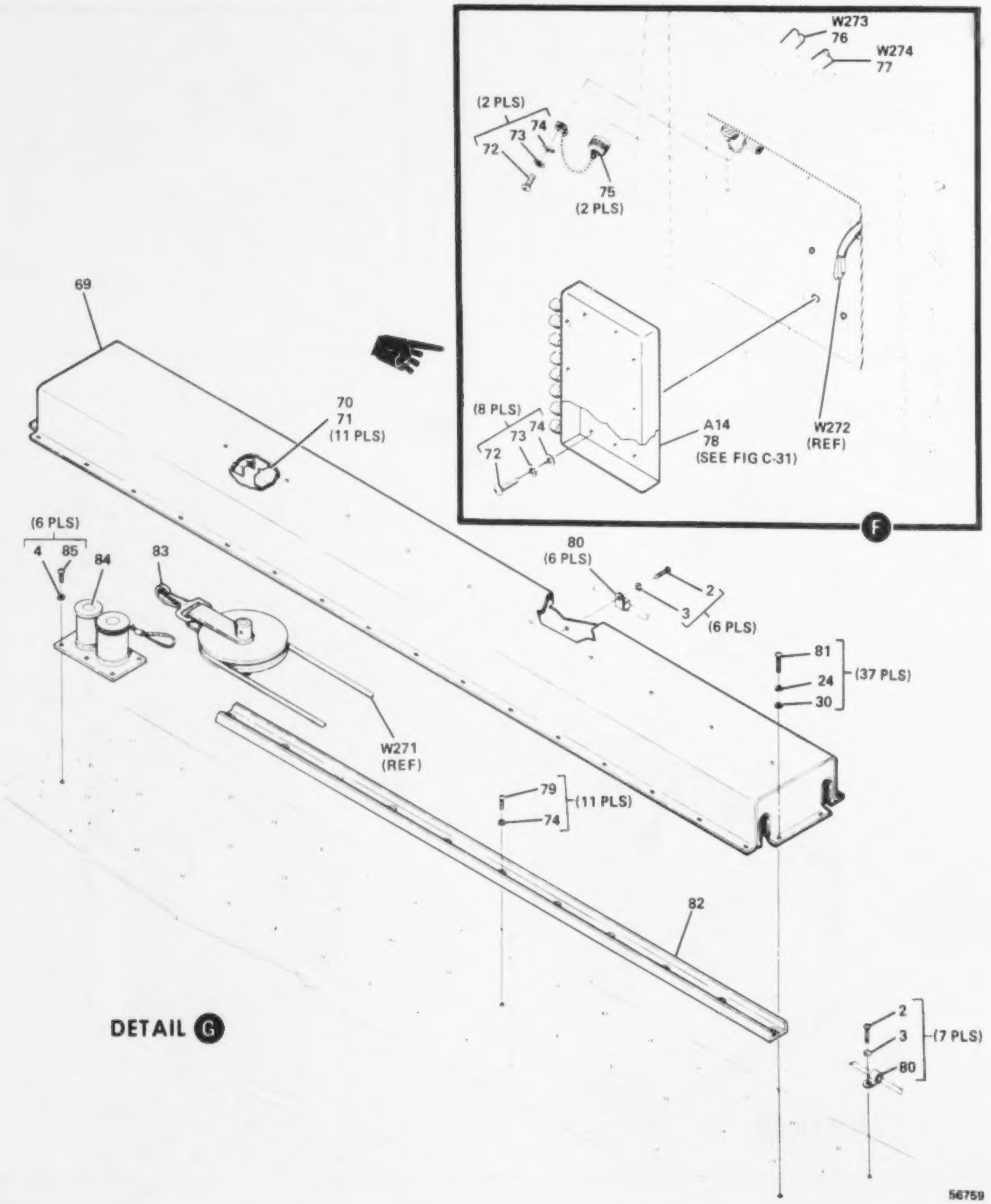


Figure C-27. Shelter Functional Group (Sheet 8 of 15)

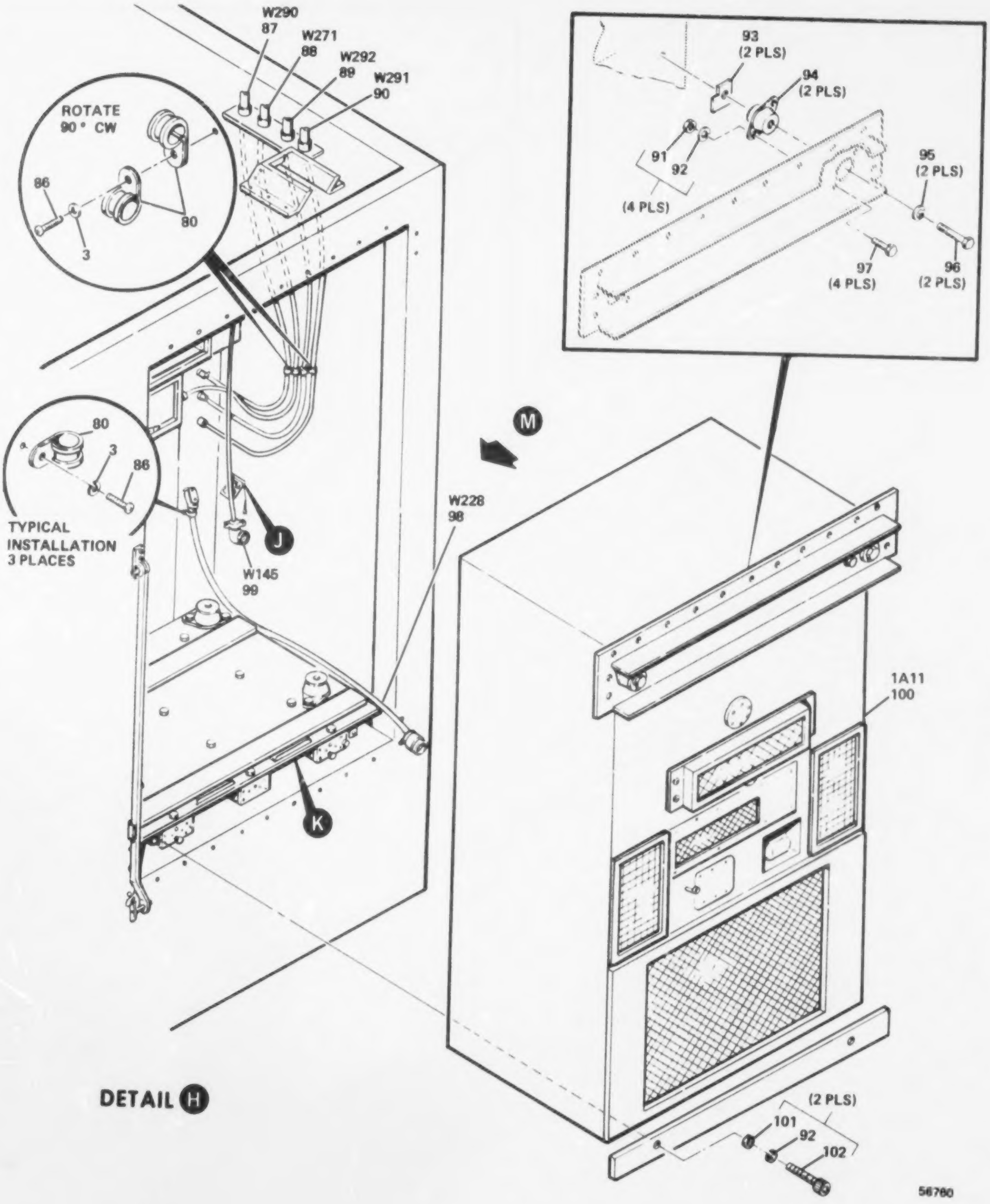


Figure C-27. Shelter Functional Group (Sheet 9 of 15)

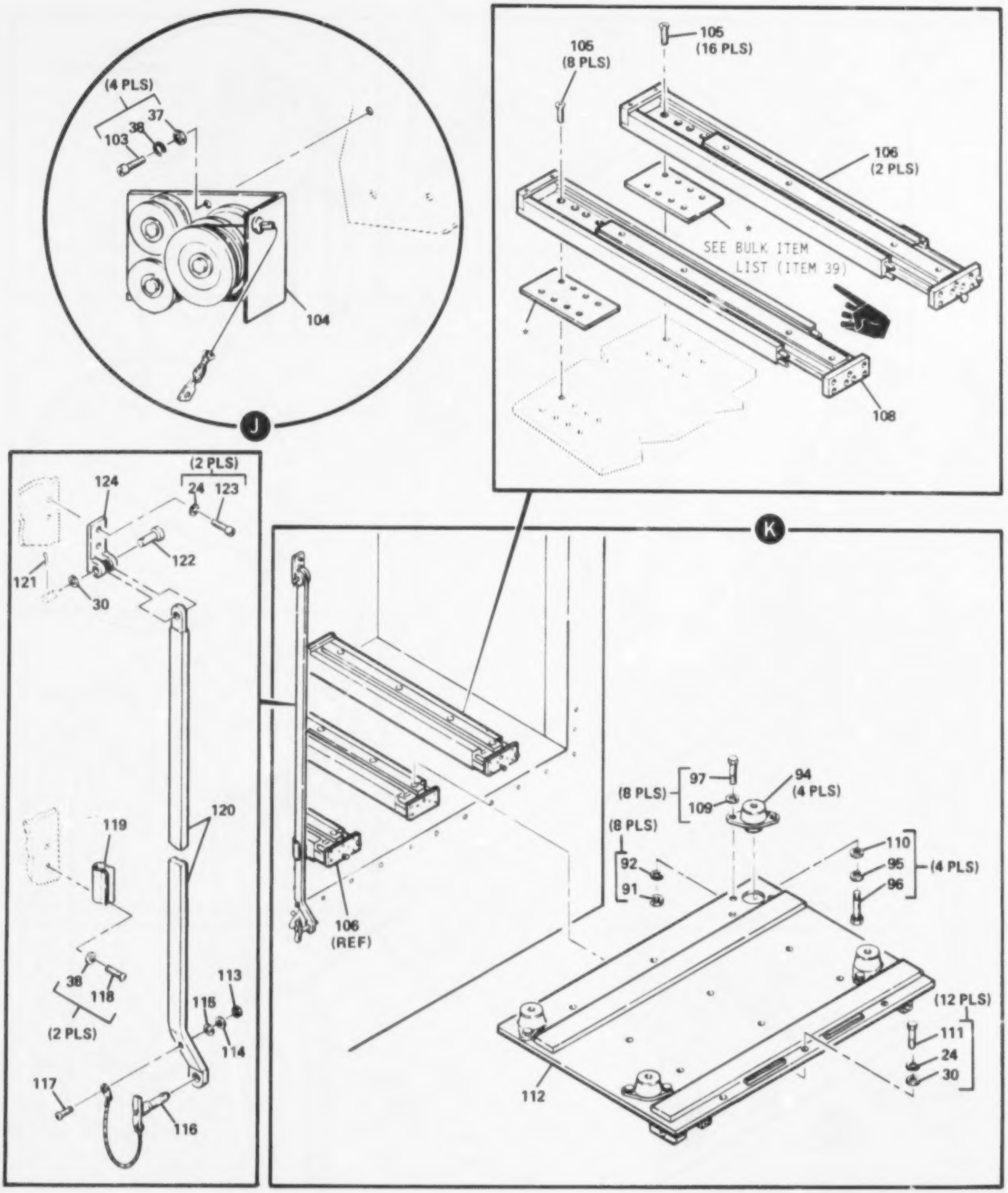


Figure C-27. Shelter Functional Group (Sheet 10 of 15)

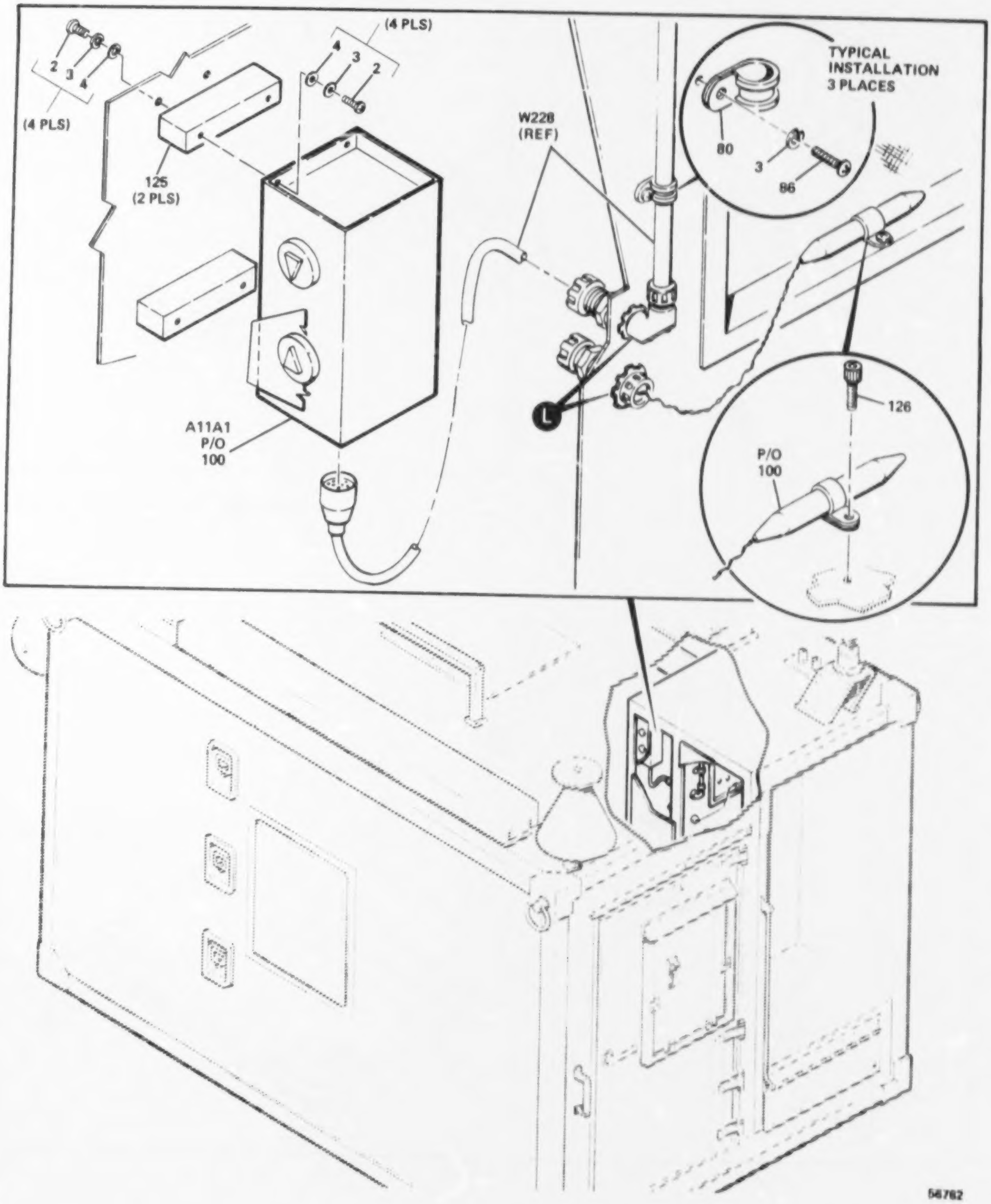


Figure C-27. Shelter Functional Group (Sheet 11 of 15)

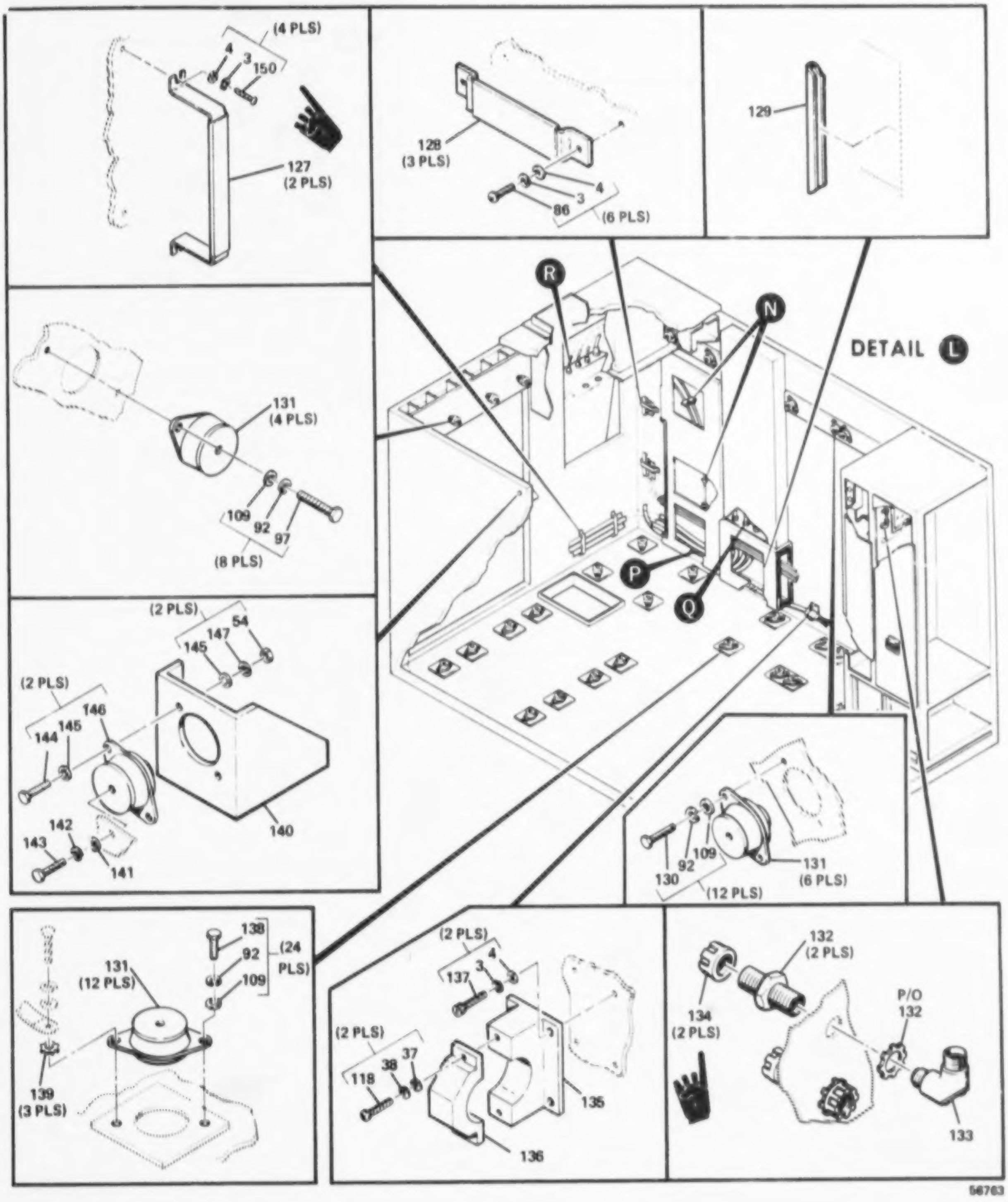


Figure C-27. Shelter Functional Group (Sheet 12 of 15)

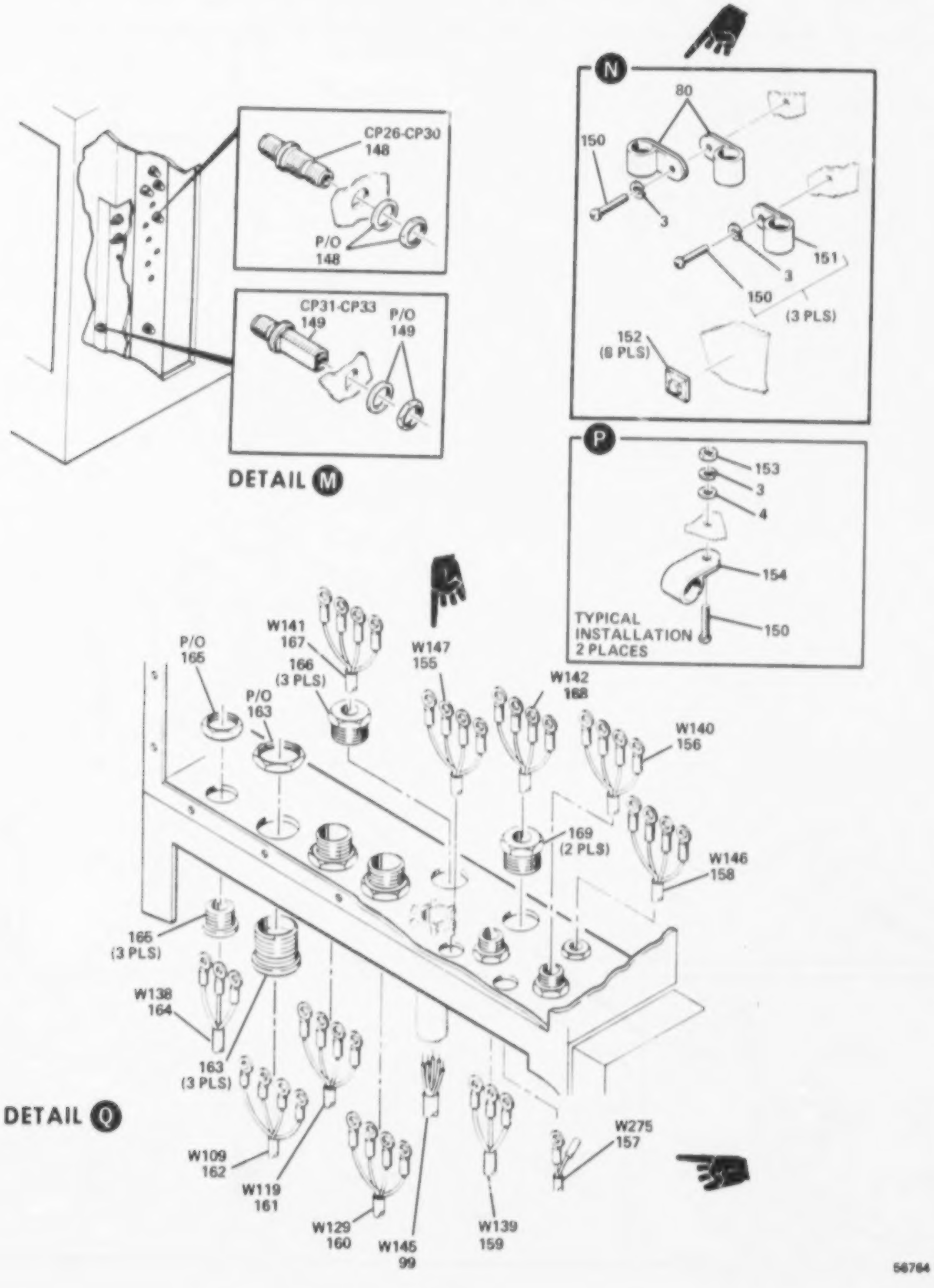


Figure C-27. Shelter Functional Group (Sheet 13 of 15)

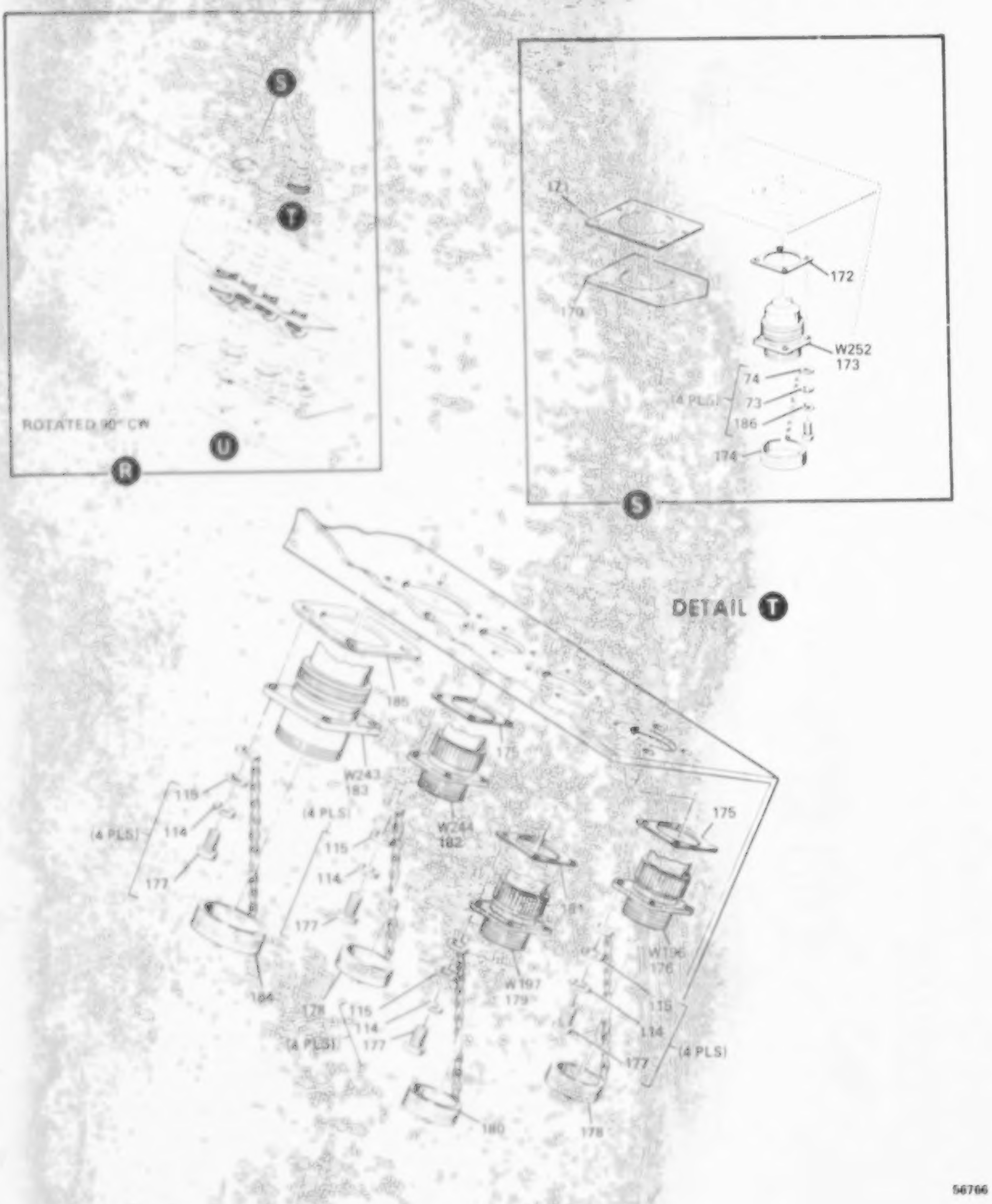


Figure C-27. Shelter Functional Group (Sheet 14 of 15)

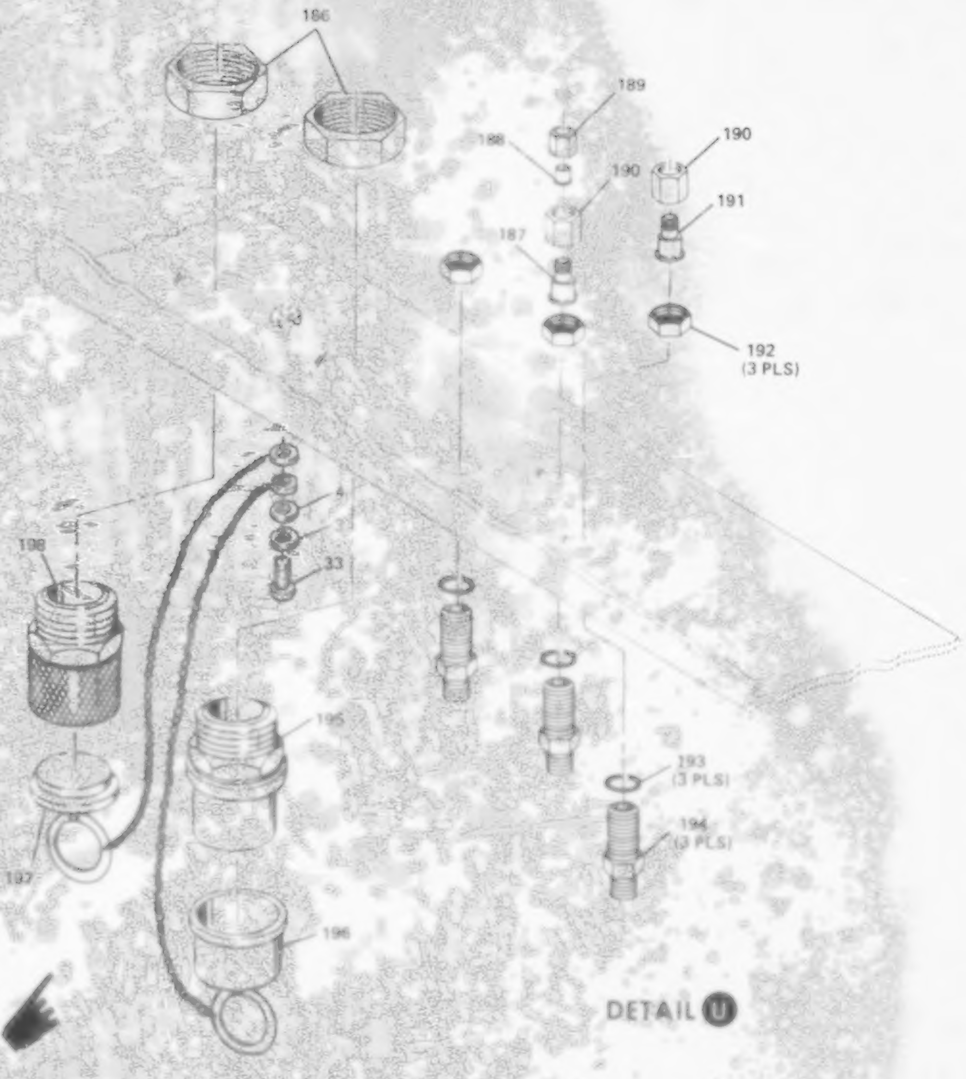


Figure C-27. Shelter Functional Group (Sheet 15 of 15)

SECTION II REPAIR PARTS LIST

	(1) ILLUS (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
							GROUP 0108 SHELTER FUNCTIONAL GROUP		
	C-27	1	XBDDD	5410-01-052-8483	5051511-1	57958	SHLTR,ELEC EQPT	EA	1
C	C-27	2	PAFZZ	5305-00-059-3659	MS51958-63	96906	SCR,MACH,PAN HD	EA	31
	C-27	3	PAFZZ	5310-00-933-8120	MS35338-138	96906	WASHER,LOCK	EA	64
	C-27	4	PAFZZ	5310-00-595-6772	MS15795-808	96906	WASHER,FLAT	EA	49
	C-27	5	PAFZZ		C5075820-1	57958	FILTER,LIGHT	EA	1
C	C-27	6	PAHZZ		MS90726-58	96906	SCR,MACH,PAN HD	EA	4
	C-27	7	PAFZZ	5310-00-937-0453	MS35338-145	96906	WASHER,LOCK	EA	26
	C-27	8	PAHZZ		NAS1352-10-48P	80205	SCR,CAP,SKT HD	EA	4
	C-27	9	PAFZZ	5305-00-724-5910	MS90725-162	96906	SCR,CAP,HEX HD	EA	20
	C-27	10	XBDDD		C5077410-296	57958	LEAD,ELECTRICAL	EA	1
	C-27	11	PAFZZ	5310-00-209-0790	MS35335-63	96906	WASHER,LOCK	EA	4
	C-27	12	PAFZZ	5305-00-724-5914	MS90725-168	96906	SCR,CAP,HEX HD	EA	4
	C-27	13	XBHDD	5865-01-115-7828	5051501-1	57958	RACK,ELEC EQPT	EA	1
	C-27	14	PAFZZ	5310-00-167-0820	AN960-516	88044	WASHER,FLAT	EA	3
	C-27	15	PAFZZ	5305-00-459-9828	NAS1352-5-16	80205	SCR,CAP,SKT HD	EA	3
	C-27	16	XBDDD	5865-01-116-1047	5051473-1	57958	RACK,ELEC EQPT	EA	1
C	C-27	17	PAFZZ	5310-00-003-9174	MS27183-21	96906	WASHER,FLAT	EA	24
	C-27	18	XBDDD		C5077409-293	57958	LEAD,ELECTRICAL	EA	1
	C-27	19	XBDDD	5865-01-115-7826	5051492-1	57958	RACK,ELEC EQPT	EA	1
	C-27	20	PAFZZ		C5075813-2	57958	BRACKET,CABLE	EA	2
	C-27	21	PAFZZ		C5075813-1	57958	BRACKET,CABLE	EA	4
	C-27	22	PAFZZ	5310-01-009-7014	C5075857-1	57958	NUT,SHEET SPR	EA	12
	C-27	23	PAFZZ	5310-00-764-9564	NAS620C416L	80205	WASHER,FLAT	EA	12
C	C-27	24	PAFZZ	5310-00-933-8121	MS35338-139	96906	WASHER,LOCK	EA	89
	C-27	25	PAFZZ	5305-00-021-3616	MS35307-305	96906	SCR,CAP,HEX HD	EA	12
	C-27	26	XBDDD	5865-01-115-7827	5051483-1	57958	RACK,ELEC EQPT	EA	1
	C-27	27	XBDDD		C5077409-294	57958	LEAD,ELECTRICAL	EA	1
	C-27	28	XBDDD		C5077409-295	57958	LEAD,ELECTRICAL	EA	1
C	C-27	29	PAFZZ	5310-00-245-8825	MS16228-4C	96906	NUT,SLFLKG,HEX	EA	9
	C-27	30	PAFZZ	5310-00-582-5677	MS15795-810	96906	WASHER,FLAT	EA	44
	C-27	31	PAFZZ	5305-00-068-0501	MS90725-5	96906	SCR,CAP,HEX HD	EA	7
	C-27	32	XBFZZ		SCC539428	80063	BRKT ASSY,LTRN	EA	1
	C-27	33	PAFZZ	5305-00-059-3661	MS51958-65	96906	SCR,MACH,PAN HD	EA	2
	C-27	34	XBFZZ	6230-00-729-9614	SCC539491	80063	LANTERN,EMER	EA	1
	C-27	35	XBFZZ		SCD539483	80063	FIRST AID KIT	EA	1
	C-27	36	XBFZZ		SCC539463	80063	BRKT ASSY,AID K	EA	1
C	C-27	37	PAHZZ	5310-00-880-5978	MS15795-807	96906	WASHER,FLAT	EA	34
C	C-27	38	PAFZZ	5310-01-067-9589	MS35338-137	96906	WASHER,LOCK	EA	27
C	C-27	39	PAFZZ	5305-00-054-6672	MS51957-47	96906	SCR,MACH,PAN HD	EA	15
	C-27	40	XBFZZ	4210-00-270-4512	SCD539482	80063	EXTINGUISHER	EA	1
	C-27	41	PAFZZ		MS90725-6	96906	SCR,CAP,HEX HD	EA	6
C	C-27	42	XBFZZ	4210-00-288-6849	SC-D-539468	80063	BRKT,FIRE EXT	EA	1
C	C-27	43	XBFZZ		SC-D-539439-1	80063	BRKT ASSY,AX	EA	1
C	C-27	44	XBFZZ		SCD539460GR1V	80063	BRKT ASSY,AX	EA	1
	C-27	45	XBFZZ	5110-00-115-5049	SCC539451	80063	AX,EMERGENCY	EA	1
	C-27	46	XBFZZ		5054770-1	57958	CHAIR,PED MTD	EA	1
	C-27	47	PAFZZ	5305-00-054-6669	MS51957-44	96906	SCR,MACH,PAN HD	EA	4
	C-27	48	XBDDD		5053205-122	57958	CABLE ASSY,SP	EA	1
	C-27	49	PAFZZ		M24236-2BAMGGJ	81349	SWITCH,THRMSTC	EA	1
	C-27	50	XBFZZ		C5077166-1	57958	BRACKET,SWITCH	EA	1
	C-27	51	PAFZZ	5340-01-139-9638	5054799-2	57958	CROSSPIN,STUD	EA	4
	C-27	52	PAFZZ		5054799-1	57958	STUD ASSY,TNLK	EA	4
	C-27	53	XBFZZ		5054770-2	57958	PEDESTAL,CHAIR	EA	1
	C-27	54	PAFZZ	5310-00-880-7744	MS51967-5	96906	NUT,PLAIN,HEX	EA	6
	C-27	55	PAFZZ	5310-00-974-6623	MS35338-140	96906	WASHER,LOCK	EA	4

SECTION II REPAIR PARTS LIST

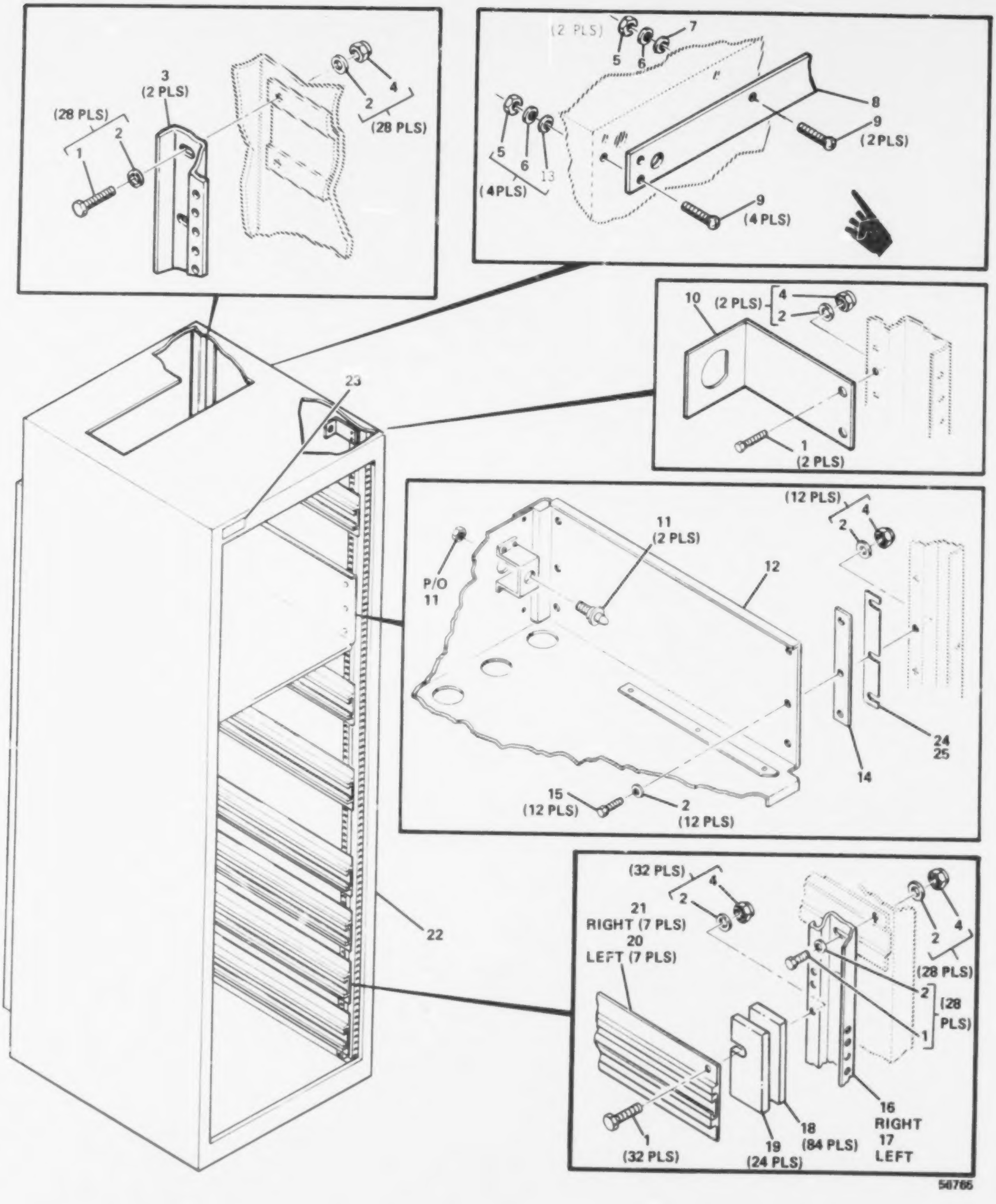
	(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
	C-27	56	PAFZZ	5310-00-081-4219	MS27183-12	96906	WASHER, FLAT	EA	4
	C-27	57	XBFZZ		C5077128-1	57958	HANDHOLD	EA	1
	C-27	58	XBFFF		C5077099-1	57958	SUPPORT, ANTENNA	EA	2
	C-27	59	PAFZZ	5310-00-208-9255	MS21044C3	96906	NUT, SLFLKC, HEX	EA	10
	C-27	60	PAFZZ	5305-00-059-3662	MS51958-66	96906	SCR, MACH, PAN HD	EA	10
	C-27	61	PAFZZ		C5077099-109	57958	CUSHION	EA	2
	C-27	62	XBFZZ		C5077122-1	57958	BRACKET, REEL	EA	1
	C-27	63	PAFZZ	5365-01-048-7838	M27426-1103D	81349	RING, RETAINING	EA	4
	C-27	64	PAFZZ		AN415-5	88044	PIN, LOCK	EA	1
	C-27	65	PAFZZ		C5077125-1	57958	BEARING, SLEEVE	EA	2
	C-27	66	XBFZZ		C5077122-2	57958	BRACKET, REEL	EA	1
	C-27	67	PAHZZ		MAS1352C4-14	80205	SCR, CAP, SKT HD	EA	4
	C-27	68	PAFZZ		C5077124-1	57958	SHAFT, REEL	EA	1
	C-27	69	XBFFF		5052356-1	57958	COVER, TKL BLOCK	EA	1
	C-27	70	XA		5052356-107	57958	CHANNEL	EA	1
	C-27	71	PAFZZ	5320-00-117-7286	MS20426AD6-6	96906	RIVET, SOLID	EA	11
C	C-27	72	PAFZZ	5305-00-054-6654	MS51957-30	96906	SCR, MACH, PAN HD	EA	10
	C-27	73	PAFZZ	5310-00-929-6395	MS35338-136	96906	WASHER, LOCK	EA	10
	C-27	74	PAFZZ	5310-00-722-5998	MS15795-805	96906	WASHER, FLAT	EA	21
	C-27	75	PAFZZ		5054281-1	57958	COVER, ELEC CONN	EA	1
	C-27	76	XBDDD		C5077398-273	57958	CABLE ASSY, RF	EA	1
	C-27	77	XBDDD		C5077398-274	57958	CABLE ASSY, SP	EA	1
	C-27	78	XBFFF		5052416-1	57958	TERMINAL BOX	EA	1
C	C-27	79	PAFZZ	5305-00-054-6656	MS51957-32	96906	SCR, MACH, PAN HD	EA	11
C	C-27	80	PAFZZ		M85052/1-6	81349	CLAMP, LOOP	EA	26
	C-27	81	PAHZZ	5305-00-071-1318	MS51957-83	96906	SCR, MACH, PAN HD	EA	37
	C-27	82	PAFZZ		C5077117-1	57958	GUIDE, PULLEY	EA	1
	C-27	83	PAFFF		5052348-1	57958	BLOCK, TACKLE	EA	1
	C-27	84	PAFZZ		5054956-1	57958	RETRACTOR, CABLE	EA	1
C	C-27	85	PAFZZ		MS51957-31	96906	SCR, MACH, PAN HD	EA	6
	C-27	56	PAFZZ		MS51958-65	96906	CABLE ASSY, RF	EA	1
	C-27	87	XBDDD		C5077399-290	57958	CABLE ASSY, RF	EA	1
	C-27	88	XBDDD		C5077375-271	57958	CABLE ASSY, RF	EA	1
	C-27	89	XBDDD		C5077399-292	57958	CABLE ASSY, RF	EA	1
	C-27	90	XBDDD		5053205-291	57958	CABLE ASSY, SP	EA	1
	C-27	91	PAFZZ	5310-00-732-0558	MS51967-8	96906	NUT, PLAIN, HEX	EA	12
C	C-27	92	PAFZZ	5310-00-984-7042	MS35338-141	96906	WASHER, LOCK	EA	74
	C-27	93	XBFZZ		C5077157-1	57958	SPACER, AIR COND	EA	2
	C-27	94	XBFZZ		5051481-1	57958	MOUNT, RESILIENT	EA	6
	C-27	95	PAFZZ	5310-00-973-8786	MS35338-142	96906	WASHER, LOCK	EA	6
	C-27	96	PAFZZ	5305-00-069-5581	MS90725-97	96906	SCR, CAP, HEX HD	EA	6
	C-27	97	PAFZZ	5305-00-269-3213	MS90725-62	96906	SCR, CAP, HEX HD	EA	22
	C-27	98	XBDDD		5053210-228	57958	CABLE ASSY, SP	EA	1
	C-27	99	XBDDD		5055518-145	57958	CABLE ASSY, PWR	EA	1
	C-27	100	PDFHD		5052290-1	57958	AIR CONDITIONER	EA	1
	C-27	101	PAFZZ	5310-00-167-0804	AN960C616	88044	WASHER, FLAT	EA	2
	C-27	102	PAFZZ	5305-00-988-7845	MS16995-82	96906	SCR, CAP, SKT HD	EA	2
C	C-27	103	PAHZZ	5305-00-914-7023	NAS1352C08-8	80205	SCR, CAP, SKT HD	EA	22
	C-27	104	PAFZZ		C5077142-1	57958	RETRACTOR, CABLE	EA	1
C	C-27	105	PAFZZ	5305-00-781-5663	MS24693C276	96906	SCR, MACH FL HD	EA	24
	C-27	106	XBFZZ		5054926-1	57958	SLIDE, DWR, EXT	EA	2
C									
	C-27	108	XBFZZ		5054960-1	57958	SLIDE, DWR, EXT	EA	1
	C-27	109	PAFZZ	5310-00-773-7618	MS15795-814	96906	WASHER, FLAT	EA	38
	C-27	110	PAFZZ	5310-00-722-5969	AN970-8	88044	WASHER, FLAT	EA	6
	C-27	111	PAFZZ	5305-00-225-3839	MS90725-8	96906	SCR, CAP, HEX HD	EA	12

SECTION II REPAIR PARTS LIST

	(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
	C-27	112	XBFZZ		5055525-1	57958	BASE,AIR COND	EA	1
	C-27	113	PAFZZ	5310-00-934-9748	MS35649-244	96906	NUT,PLAIN,HEX	EA	1
	C-27	114	PAFZZ	5310-00-933-8118	MS35338-135	96906	WASHER,LOCK	EA	17
	C-27	115	PAFZZ	5310-00-595-6211	MS15795-803	96906	WASHER,FLAT	EA	17
	C-27	116	PAFZZ		5054685-1	57958	PIN,QUICK RLSE	EA	1
	C-27	117	PAFZZ	5305-00-054-5652	MS51957-18	96906	SCR,MACH,PAN HD	EA	1
C	C-27	118	PAFZZ		MS51957-45	96906	SCR,MACH,PAN HD	EA	4
	C-27	119	PAFZZ		C5077116-1	57958	CLIP,RETAINING	EA	1
	C-27	120	XBFZZ		5055526-1	57958	SPRT,AIR COND	EA	1
	C-27	121	PAFZZ	5315-01-027-6616	MS24665-132	96906	PIN,COTTER	EA	1
	C-27	122	PAFZZ	5315-00-081-7016	MS20392-3C33	96906	PIN,STR,HEADED	EA	1
	C-27	123	PAFZZ	5305-00-943-5939	NAS1352C4-16	80205	SCR,CAP,SKT HD	EA	2
	C-27	124	XBFZZ		C5077111-1	57958	BRKT,SPRT ROD	EA	1
	C-27	125	XBFFF		C5077147-1	57958	BLOCK,MTG,CONT	EA	2
	C-27	126	PAFZZ	5305-00-116-1539	NAS1352C08-20	80205	SCR,CAP,SKT HD	EA	1
	C-27	127	PAFZZ		C5077403-1	57958	SUPPORT,CABLE	EA	2
	C-27	128	XBFFF		C5077389-1	57958	BRACKET,CABLE	EA	3
	C-27	129	PAFZZ		5054398-1	57958	MOLDING,PLASTIC	FT	1
	C-27	130	PAFZZ	5305-00-006-6574	MS90725-60	96906	SCR,CAP,HEX HD	EA	12
	C-27	131	XBDZZ		5054969-2	57958	MOUNT,RESILIENT	EA	30
	C-27	132	PAFZZ	5340-00-003-6763	5054619-1	57958	BOX CONN,ELEC	EA	2
	C-27	133	PAFZZ	5975-00-669-9467	5054519-3	57958	BSHG,STRAIN RLF	EA	1
C	C-27	134	PAFZZ	5975-00-234-6779	5054521-1	57958	BSHG,ELEC CND	EA	2
	C-27	135	XBDDD		C5077373-1	57958	SUPPORT,CONDUIT	EA	1
	C-27	136	XBDZZ		C5077404-1	57958	CLAMP,CONDUIT	EA	1
	C-27	137	PAFZZ	5305-00-076-0213	NAS1351C3-10	80205	SCR,CAP SKT HD	EA	2
C	C-27	138	PAFZZ	5305-00-269-3214	MS90725-64	96906	SCR,CAP HEX HD	EA	28
	C-27	139	PAFZZ	5310-00-995-9455	MS35335-67	96906	WASHER,LOCK	EA	3
	C-27	140	XBDZZ		5051729-1	57958	BRKT,SWAY BRACE	EA	1
	C-27	141	PAFZZ	5310-00-809-5998	MS27183-18	96906	WASHER,FLAT	EA	1
	C-27	142	PAFZZ	5310-00-933-8778	MS35338-143	96906	WASHER,LOCK	EA	1
	C-27	143	PAFZZ	5305-00-071-1773	MS90725-120	96906	SCR,CAP,HEX HD	EA	1
	C-27	144	PAFZZ	5305-00-225-9081	MS90725-36	96906	SCR,CAP,HEX HD	EA	2
	C-27	145	PAFZZ	5310-00-081-4219	MS27183-12	96906	WASHER,FLAT	EA	4
C	C-27	146	XBDZZ		5054969-1	57958	MOUNT,RESILIENT	EA	2
	C-27	147	PAFZZ	5310-00-974-6623	MS35338-140	96906	WASHER,LOCK	EA	2
	C-27	148	PAFZZ	5935-00-993-2949	5054452-1	57958	ADAPTER,CONN	EA	5
	C-27	149	PAFZZ	5935-01-033-9639	M55339-04-00030	81349	ADAPTER,CONN	EA	3
	C-27	150	PAFZZ		MS51958-64	96906	SCR,MACH,PAN HD	EA	6
C	C-27	151	PAFZZ	5340-01-132-0601	M85052/1-9	81349	CLAMP,LOOP	EA	2
	C-27	152	PAFZZ	5975-00-489-3839	0213-1-1303-1	57958	BASE,TDN STRAP	EA	8
	C-27	153	PAFZZ	5310-00-934-9765	MS35650-304	96906	NUT,PLAIN,HEX	EA	4
	C-27	154	PAFZZ	5340-01-131-3132	M85052/1-16	81349	CLAMP,LOOP	EA	5
	C-27	155	XBDDD		C5077377-147	57958	CABLE ASSY,SP	EA	1
	C-27	156	XBDDD		C5077383-140	57958	CABLE ASSY,SP	EA	1
	C-27	157	XBDDD		C5077377-275	57958	CABLE ASSY,SP	EA	1
	C-27	158	XBDDD		C5077378-146	57958	CABLE ASSY,SP	EA	1
	C-27	159	XBDDD		C5077383-139	57958	CABLE ASSY,SP	EA	1
	C-27	160	XBDDD		C5077380-129	57958	CABLE ASSY,SP	EA	1
	C-27	161	XBDDD		C5077380-119	57958	CABLE ASSY,SP	EA	1
	C-27	162	XBDDD		C5077380-109	57958	CABLE ASSY,SP	EA	1
	C-27	163	PAFZZ		5054544-3	57958	FITTING,PNL-CND	EA	3
	C-27	164	XBDDD		C5077383-138	57958	CABLE ASSY,SP	EA	1
	C-27	165	XA		5054544-1	57958	FITTING,PNL-CND	EA	3
	C-27	166	PAFZZ		5054681-2	57958	BOX CONN,ELEC	EA	3
	C-27	167	XBDDD		C5077383-141	57958	CABLE ASSY,SP	EA	1

SECTION II REPAIR PARTS LIST

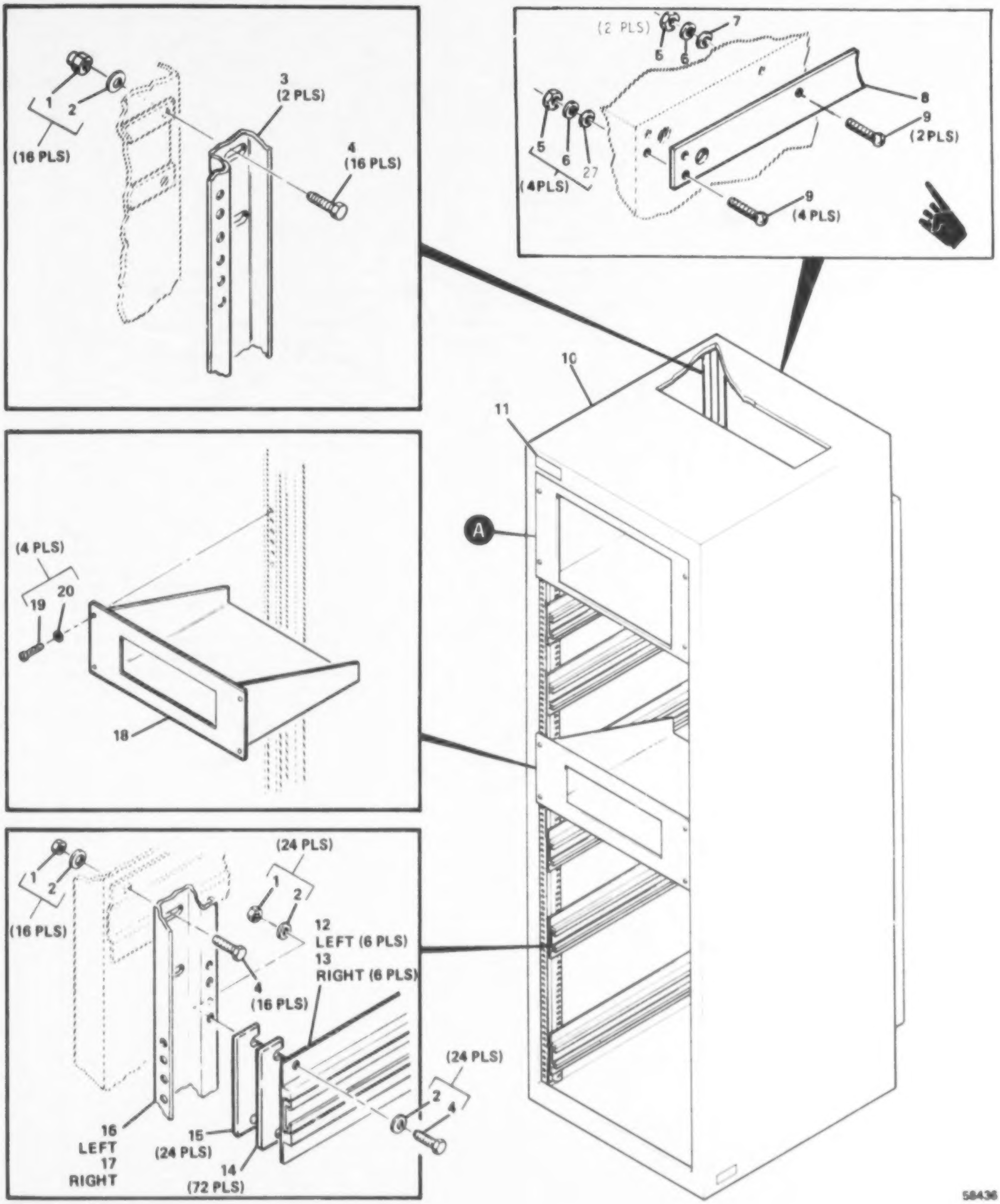
(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
C-27	168	XBDDD		C5077383-142	57958	CABLE ASSY,SP	EA	1
C-27	169	PAFZZ		5054681-1	57958	BOX CONN,ELEC	EA	2
C-27	170	XBFZZ		C5077452-1	57958	ADPTR PL. CONN	EA	1
C-27	171	PAFZZ		5054381-3	57958	SHLD GSKT,ELEK	EA	1
C-27	172	PAFZZ		5054776-11	57958	SHLD GSKT,ELEK	EA	1
C-27	173	XBDDD		5053205-252	57958	CABLE ASSY,SP	EA	1
C-27	174	PAFZZ	5935-00-998-5598	MS17349C28B	96906	COVER,ELEC CONN	EA	1
C-27	175	PAFZZ	5999-00-520-8087	5054776-6	57958	SHLD GSKT,ELEK	EA	2
C-27	176	XBDDD		5053205-196	57958	CABLE ASSY,SP	EA	1
C-27	177	PAFZZ	5305-00-054-5651	MS51957-17	96906	SCR,MACH,PAN HD	EA	16
C-27	178	PAFZZ	5935-00-500-5008	MS25043-18D	96906	COVER,ELEC CONN	EA	2
C-27	179	XBDDD		5053205-197	57958	CABLE ASSY,SP	EA	1
C-27	180	PAFZZ	5935-00-221-8620	MS25043-20D	96906	COVER,ELEC CONN	EA	1
C-27	181	PAFZZ	5999-00-469-4966	5054776-7	57958	SHLD GSKT,ELEK	EA	1
C-27	182	XBDDD		5053205-244	57958	CABLE ASSY,SP	EA	1
C-27	183	XBHHH		C5077406-1	57958	WIRING HARNESS	EA	1
C-27	184	PAFZZ	5935-00-137-4879	MS25043-28D	96906	COVER,ELEC CONN	EA	1
C-27	185	PAFZZ	5999-00-469-4971	5054776-10	57958	SHLD GSKT,ELEK	EA	1
C-27	186	PAFZZ	5310-00-063-1611	AN924-24S	88044	NUT,PLAIN,HEX	EA	2
C-27	187	PAFZZ	4730-00-719-2596	MS51534B8-6S	96906	RDCR BODY,TUBE	EA	1
C-27	188	PAFZZ	4730-00-786-9666	MS51533B6S	96906	SLV,FLRD,TUBE	EA	1
C-27	189	PAFZZ	4730-00-951-2382	MS51531B6S	96906	NUT,TUBE CPLG	EA	1
C-27	190	PAFZZ	4730-00-762-1239	MS51531B8	96906	NUT,TUBE CPLG	EA	2
C-27	191	PAFZZ	4730-00-727-7387	MS51534B8-6	96906	RDCR BODY,TUBE	EA	1
C-27	192	PAFZZ	5310-00-269-6717	MS51860-56	96906	LKNT,TUBE FTG	EA	3
C-27	193	PAFZZ	5330-00-006-2249	MS28778-8	96906	PKG,PREFORMED	EA	3
C-27	194	PAFZZ	4730-00-797-7957	MS51520B8	96906	NIPPLE,TUBE	EA	3
C-27	195	PAFZZ		5054911-11	57958	CPLG HALF,QDISC	EA	1
C-27	196	PAFZZ		5054720-8	57958	CAP,PROT,DUMR	EA	1
C-27	197	PAFZZ		5054720-4	57958	PLUG,PROT,DUMR	EA	1
C-27	198	PAFZZ		5054911-12	57958	CPLG HALF,QDISC	EA	1



PREFIX ALL REFERENCE DESIGNATIONS WITH: 1MP1
Figure C-28. Rack, Electrical Equipment 5051473-1

SECTION II REPAIR PARTS LIST

	(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
	(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
							GROUP 010802 RACK,ELECTRICAL EQUIPMENT (57958) 5051473-1		
	C-28	1	PAFZZ	5305-00-021-3616	MS35307-305	96906	SCR,CAP,HEX HD	EA	90
	C-28	2	PAFZZ	5310-00-764-9564	NAS620C416L	80205	WASHER,FLAT	EA	170
	C-28	3	PAFZZ		5054492-1	57958	CHAN,MTG,EQPT	EA	2
	C-28	4	PAFZZ	5310-00-245-8825	MS16228-4C	96906	NUT,SLFLKG,HEX	EA	102
	C-28	5	PAFZZ	5310-00-934-9765	MS35650-304	96906	NUT,PLAIN,HEX	EA	6
	C-28	6	PAFZZ	5310-00-933-8120	MS35338-138	96906	WASHER,LOCK	EA	6
C	C-28	7	PAFZZ	5310-00-595-6772	MS15795-808	96906	WASHER,FLAT	EA	2
	C-28	8	PAFZZ		C5077408-1	57958	DOUBLER,RACK	EA	1
	C-28	9	PAFZZ	5305-00-071-1325	MS51960-68	96906	SCR,MACH,FL HD	EA	6
	C-28	10	PAFZZ		C5077145-1	57958	BRACKET,CONN	EA	1
	C-28	11	PAFZZ	5315-01-013-3833	5054728-1	57958	PIN,ALIGNMENT	EA	2
	C-28	12	PAFZZ		5053253-1	57958	ADAPTER,RACK	EA	1
C	C-28	13	PAFZZ	5310-00-550-5054	MS15795-809	96906	WASHER,FLAT	EA	4
	C-28	14	PAFZZ		5053252-1	57958	SPACER,PLATE	EA	4
	C-28	15	PAFZZ	5305-00-702-4523	MS35307-306	96906	SCR,CAP,HEX HD	EA	12
	C-28	16	PAFZZ		5051482-1	57958	CHAN,MTG,EQPT	EA	1
	C-28	17	PAFZZ		5051482-2	57958	CHAN,MTG,EQPT	EA	1
	C-28	18	PAFZZ		C5077163-1	57958	SHIM,SLIDE	EA	84
	C-28	19	PAFZZ		C5077163-2	57958	SHIM,SLIDE	EA	28
	C-28	20	PAFZZ		5054833-5	57958	SLIDE SECT,DWR	EA	7
	C-28	21	PAFZZ		5054833-6	57958	SLIDE SECT,DWR	EA	7
	C-28	22	PAFZZ		5053197-1	57958	RACK,ELEC EQPT	EA	1
	C-28	23	PAFZZ		5051425-37	57958	PLATE,IDENT	EA	1
N	C-28	24	PAFZZ		C5140459-1	57958	SHIM	EA	1
N	C-28	25	PAFZZ		C5140459-2	57958	SHIM	EA	1



PREFIX ALL REFERENCE DESIGNATIONS WITH: 1MP2

Figure C-29. Rack, Electrical Equipment 5051492-1 (Sheet 1 of 2)

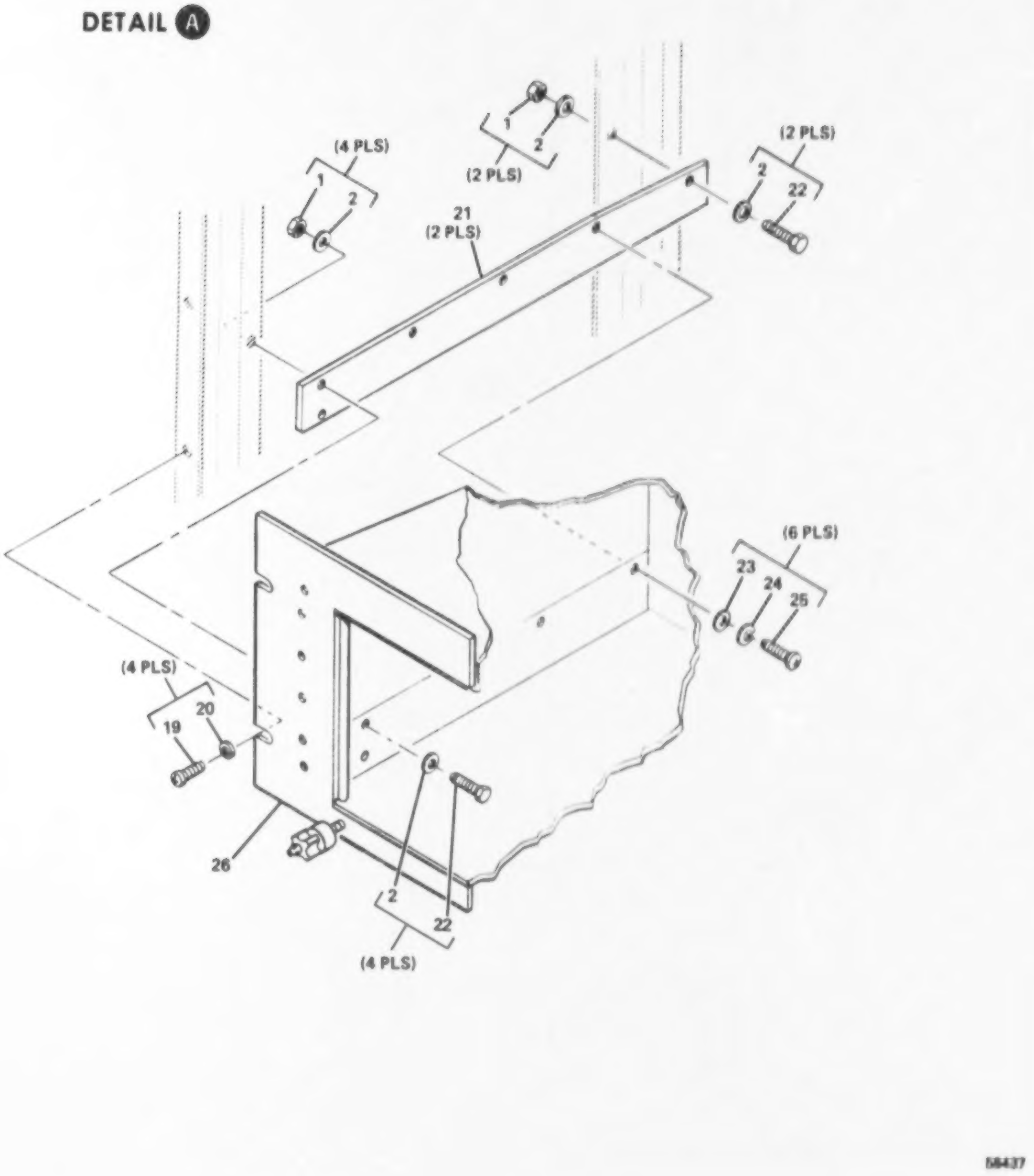
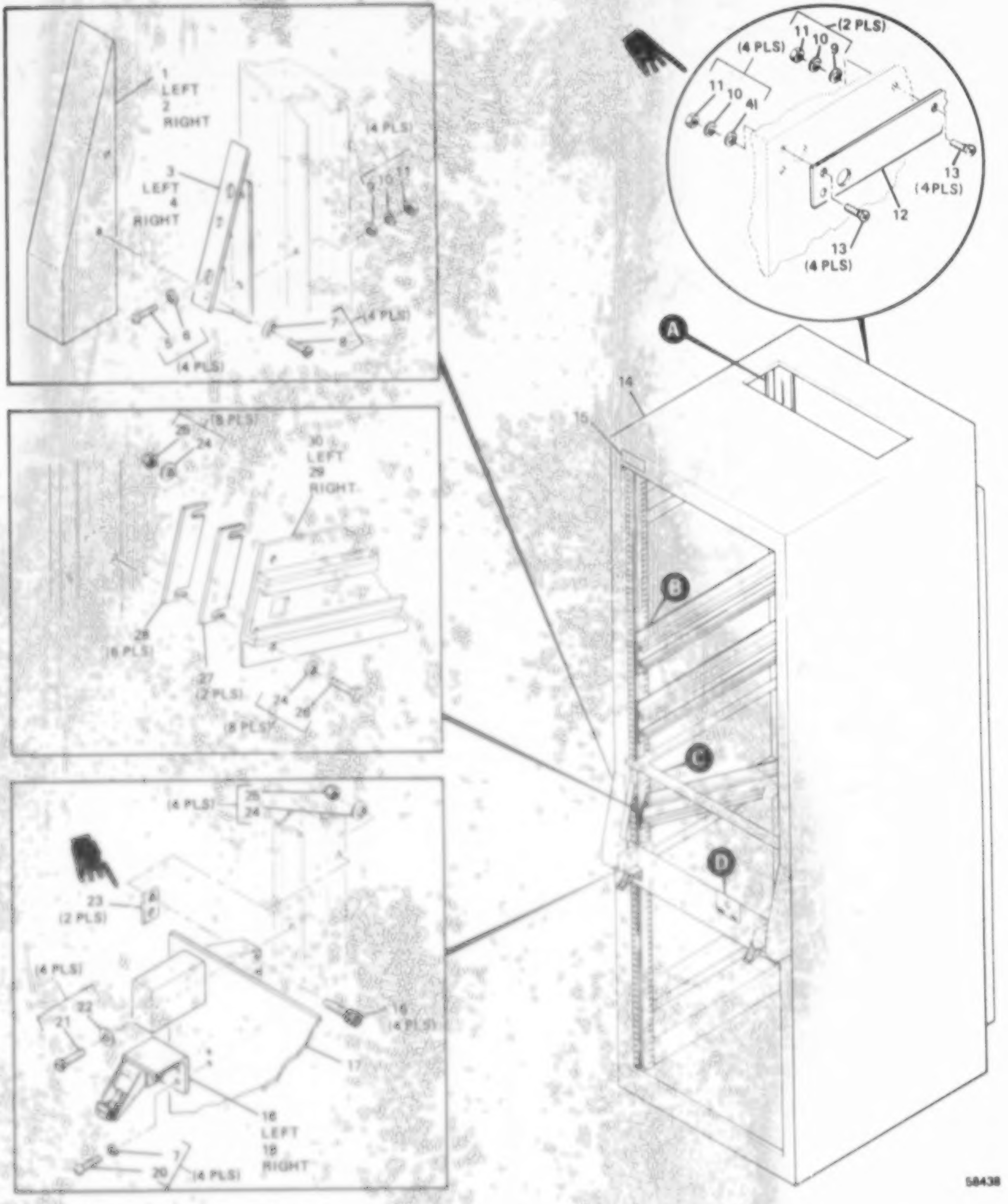


Figure C-29. Rack, Electrical Equipment 5051492-1 (Sheet 2 of 2)

SECTION II REPAIR PARTS LIST

	(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
	(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
							GROUP 010803 RACK, ELECTRICAL EQUIPMENT (57958) 5051492-1		
	C-29	1	PAFZZ	5310-00-245-8825	MS16228-4C	96906	NUT,SLFLKG,HEX	EA	86
C	C-29	2	PAFZZ	5310-00-764-9566	NAS620C416L	80205	WASHER,FLAT	EA	134
	C-29	3	PAFZZ		5054492-1	57958	CHAN,MTG,EQPT	EA	2
	C-29	4	PAFZZ	5305-00-021-3616	MS35307-305	96906	SCR,CAP,HEX HD	EA	80
	C-29	5	PAFZZ	5310-00-934-9765	MS35650-304	96906	NUT,PLAIN,HEX	EA	6
	C-29	6	PAFZZ	5310-00-933-8120	MS35338-138	96906	WASHER,LOCK	EA	6
C	C-29	7	PAFZZ	5310-00-595-6772	MS15795-808	96906	WASHER,FLAT	EA	2
	C-29	8	PAFZZ		C5077407-1	57958	DOUBLER,RACK	EA	1
	C-29	9	PAFZZ	5305-00-071-1324	MS51960-67	96906	SCR,MACH,FL HD	EA	6
	C-29	10	PAFZZ		5053198-1	57958	RACK,ELEC EQPT	EA	1
	C-29	11	PAFZZ		5051425-39	57958	PLATE,IDENT	EA	1
	C-29	12	PAFZZ		5054833-3	57958	SLIDE SECT,DWR	EA	6
	C-29	13	PAFZZ		5054833-4	57958	SLIDE SECT,DWR	EA	6
	C-29	14	PAFZZ		C5077163-1	57958	SHIM,SLIDE	EA	72
	C-29	15	PAFZZ		C5077163-2	57958	SHIM,SLIDE	EA	24
	C-29	16	PAFZZ		5051482-3	57958	CHAN,MTG,EQPT	EA	1
	C-29	17	PAFZZ		5051482-4	57958	CHAN,MTG,EQPT	EA	1
	C-29	18	PAFZZ		5051444-1	57958	ADAPTER,RCDR	EA	1
	C-29	19	PAFZZ	5305-00-926-5532	5054677-1	57958	SCREW,MACHINE	EA	8
	C-29	20	PAFZZ	5970-01-141-5254	5054678-1	57958	INSULATOR,WSHR	EA	8
	C-29	21	PAFZZ		5051789-1	57958	BAR,MTG,ADAPTER	EA	2
	C-29	22	PAFZZ	5305-00-702-4523	MS35307-306	96906	SCR,CAP,HEX HD	EA	6
C	C-29	23	PAFZZ	5310-00-595-6772	MS15795-808	96906	WASHER,FLAT	EA	4
	C-29	24	PAFZZ	5310-00-933-8120	MS35338-138	96906	WASHER,LOCK	EA	6
	C-29	25	PAFZZ	5305-00-959-3659	MS51958-63	96906	SCR,MACH,PAN HD	EA	6
	C-29	26	PAFZZ		5053278-1	57958	ADAPTER,RACK	EA	1
N	C-29	27	PAFZZ	5310-00-550-5054	MS15795-809	96906	WASHER,FLAT	EA	4



PREFIX ALL REFERENCE DESIGNATIONS WITH: 1MP3

Figure C-30. Rack, Electrical Equipment 5051483-1 (Sheet 1 of 2)

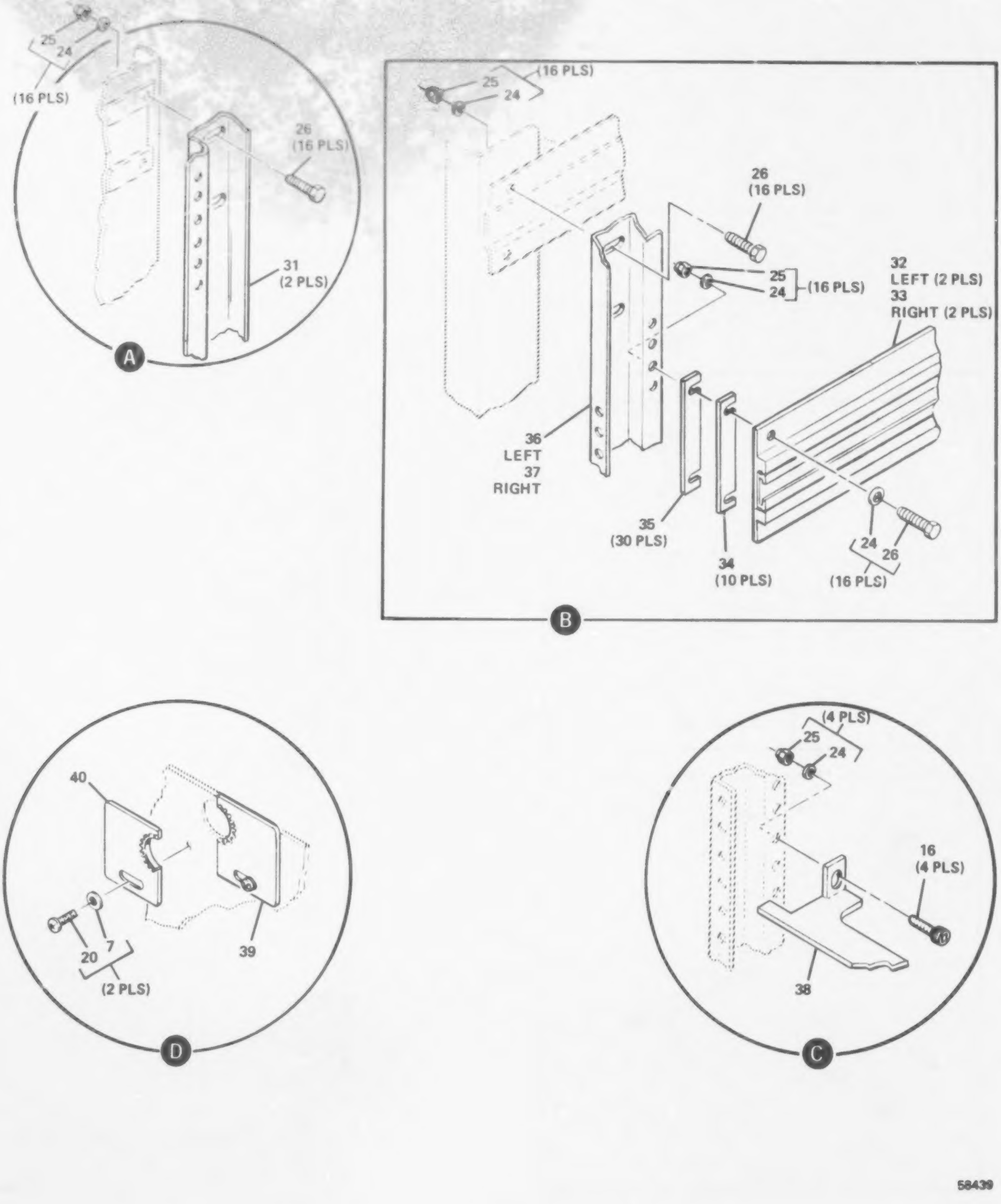
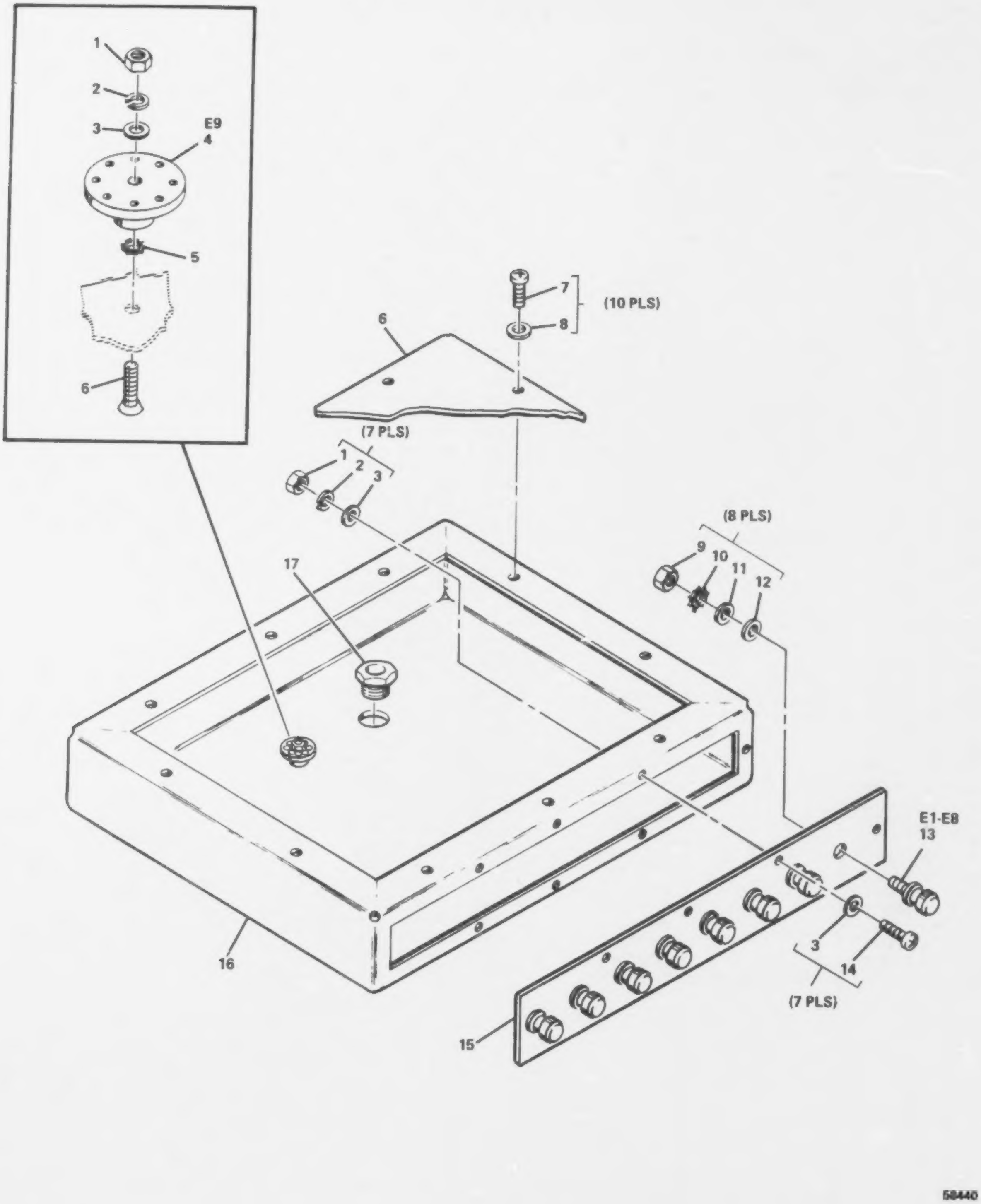


Figure C-30. Rack, Electrical Equipment 5051483-1 (Sheet 2 of 2)

SECTION II REPAIR PARTS LIST

	(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
							GROUP 010804 RACK, ELECTRICAL EQUIPMENT (57958) 5051483-1		
	C-30	1	PAFZZ		5053228-2	57958	SUPPORT,PANEL	EA	1
	C-30	2	PAFZZ		5053228-1	57958	SUPPORT,PANEL	EA	1
	C-30	3	PAFZZ		5053229-1	57958	ADAPTER,PANEL	EA	1
	C-30	4	PAFZZ		5053229-2	57958	ADAPTER,PANEL	EA	1
	C-30	5	PAFZZ	5305-00-059-3660	MS51958-64	96906	SCR,MACH,PAN HD	EA	4
	C-30	6	PAFZZ	5310-00-989-0640	NAS620C10	80205	WASHER,FLAT	EA	4
C	C-30	7	PAFZZ	5310-00-880-5978	MS15795-807	96906	WASHER,FLAT	EA	10
	C-30	8	PAFZZ	5305-00-054-6670	MS51957-45	96906	SCR,MACH,PAN HD	EA	4
C	C-30	9	PAFZZ	5310-00-595-6772	MS15795-808	96906	WASHER,FLAT	EA	8
C	C-30	10	PAFZZ	5310-00-933-8120	MS35336-138	96906	WASHER,LOCK	EA	10
	C-30	11	PAFZZ	5310-00-934-9765	MS35650-304	96906	NUT,PLAIN,HEX	EA	10
	C-30	12	PAFZZ		C5077407-1	57958	DOUBLER,RACK	EA	1
	C-30	13	PAFZZ	5305-00-071-1324	MS51960-67	96906	SCR,MACH,FL HD	EA	6
	C-30	14	PAFZZ		5053199-1	57958	RACK,ELEC EQPT	EA	1
	C-30	15	PAFZZ		5051425-38	57958	PLATE,IDENT	EA	1
C	C-30	16	PAFZZ	5305-00-943-5939	NAS1352C4-16	80205	SCR,CAP,SKT HD	EA	6
	C-30	17	PAFZZ		5053230-1	57958	SUPPORT,KYBD	EA	1
	C-30	18	PAFZZ		5053227-2	57958	BRACKET,LATCH	EA	1
	C-30	19	PAFZZ		5053227-1	57958	BRACKET,LATCH	EA	1
	C-30	20	PAFZZ	5305-00-054-6671	MS51957-46	96906	SCR,MACH,PAN HD	EA	6
	C-30	21	PAFZZ	5305-00-926-5532	5054677-1	57958	SCREW,MACHINE	EA	4
	C-30	22	PAFZZ	5970-01-141-5254	5054678-1	57958	INSULATOR,WSHR	EA	4
C	C-30	23	PAFZZ		5051454-1	57958	SHIM	EA	8
C	C-30	24	PAFZZ	5310-00-764-9564	NAS620C416L	80205	WASHER,FLAT	EA	88
C	C-30	25	PAFZZ	5310-00-245-8825	MS16228-4C	96906	NUT,SLFLKG,HEX	EA	62
	C-30	26	PAFZZ	5305-00-021-3616	MS35307-305	96906	SCR,CAP,HEX HD	EA	56
	C-30	27	PAFZZ		C5077163-4	57958	SHIM,SLIDE	EA	2
	C-30	28	PAFZZ		C5077163-3	57958	SHIM,SLIDE	EA	6
	C-30	29	PAFZZ		5054994-4	57958	SLIDE SECT,DWR	EA	1
	C-30	30	PAFZZ		5054994-3	57958	SLIDE SECT,DWR	EA	1
	C-30	31	PAFZZ		5054492-1	57958	CHAN,MTG,EQPT	EA	2
	C-30	32	PAFZZ		5054833-3	57958	SLIDE SECT,DWR	EA	2
	C-30	33	PAFZZ		5054833-4	57958	SLIDE SECT,DWR	EA	2
	C-30	34	PAFZZ		C5077163-2	57958	SHIM,SLIDE	EA	10
	C-30	35	PAFZZ		C5077163-1	57958	SHIM,SLIDE	EA	30
	C-30	36	PAFZZ		5051482-6	57958	CHAN,MTG,EQPT	EA	1
	C-30	37	PAFZZ		5051482-5	57958	CHAN,MTG,EQPT	EA	1
	C-30	38	PAFZZ		5055273-1	57958	SPACER,RACK	EA	1
	C-30	39	PAFZZ		5053226-2	57958	BRACKET,CABLE	EA	1
	C-30	40	PAFZZ		5053226-1	57958	BRACKET,CABLE	EA	1
N	C-30	41	PAFZZ	5310-00-550-5054	MS15795-809	96906	WASHER,FLAT	EA	4



PREFIX ALL REFERENCE DESIGNATIONS WITH: 1A14
Figure C-31. Terminal Box 5052416-1

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 010807 TERMINAL BOX (57958) 5052416-1		
C-31	1	PAFZZ	5310-00-934-9748	MS35649-244	96906	NUT,PLAIN,HEX	EA	8
C-31	2	PAFZZ	5310-00-933-8118	MS35338-135	96906	WASHER,LOCK	EA	8
C-31	3	PAFZZ	5310-00-595-6211	MS15795-803	96906	WASHER,FLAT	EA	15
C-31	4	PAFZZ	5940-00-939-7825	SE26XF03	81349	TERMINAL,STUD	EA	1
C-31	5	PAFZZ	5310-00-058-3599	MS35335-57	96906	WASHER,LOCK	EA	1
C-31	6	XBOZZ		5052418-1	57958	COVER,TERM BOX	EA	1
C-31	7	PAFZZ	5305-00-054-6654	MS51957-30	96906	SCR,MACH,PAN HD	EA	10
C-31	8	PAFZZ	5310-00-722-5998	MS15795-805	96906	WASHER,FLAT	EA	10
C-31	9	PAFZZ	5310-00-934-9759	MS35649-284	96906	NUT.PLAIN,HEX	EA	8
C-31	10	PAFZZ	5310-00-614-3552	MS35335-59	96906	WASHER,LOCK	EA	8
C-31	11	PAHZZ	5310-00-880-5978	MS15795-807	96906	WASHER,FLAT	EA	8
C-31	12	PAFZZ		5054599-1	57958	INSULATOR,WSHR	EA	8
C-31	13	PAFZZ	6625-01-092-1814	5054406-1	57958	POST,BINDING	EA	8
C-31	14	PAFZZ	5305-00-054-5651	MS51957-17	96906	SCR,MACH,PAN HD	EA	7
C-31	15	PAFZZ		5052419-1	57958	INSUL,BDG POST	EA	1
C-31	16	XBFFF		5052417-1	57958	HSG,TERM BOX	EA	1
C-31	17	PAFZZ		5054681-2	57958	BOX CONN,ELEC	EA	1

CABLE PART NO.	FIGURE NO.
C5075814	C-32
C5077375	C-33
C5077376	C-34
C5077377	C-35
C5077378	C-36
C5077380	C-37
C5077381	C-38
C5077382	C-39
C5077383	C-40
C5077384	C-41
C5077385	C-42
C5077387	C-43
C5077390	C-44
C5077394	C-45
C5077395	C-46
C5077396	C-47
C5077397	C-48
C5077398	C-49
C5077399	C-50
C5077400	C-51
C5077401	C-52
C5077406	C-53
C5077411	C-54
C5077412	C-55
C5077453	C-56
C5114416	C-57
C5061722	C-58
C5053205	C-59
C5053206	C-60
C5053210	C-61
C5055502	C-62
C5055518	C-63

56766

a. Cross Reference Table; Cable to Figure Number
Figure C-32. Cable Assy., SP C5075814-301 (Sheet 1 of 2)

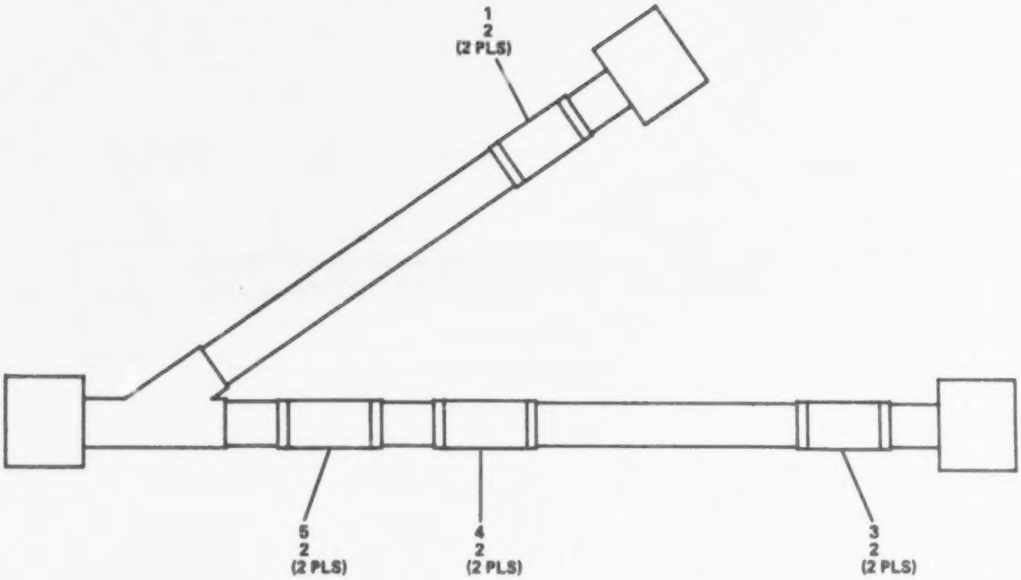


Figure C-32. Cable Assy., SP C5075814-301 (Sheet 2 of 2)

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 00 CABLE ASSY,SP (57958) 5075814-301		
C-32	1	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	8
C-32	2	XBFZZ		C5077430-396	57958	TAG,MARKER	EA	1
C-32	3	XBFZZ		C5077430-395	57958	TAG,MARKER	EA	1
C-32	4	XBFZZ		C5077430-397	57958	TAG,MARKER	EA	1
C-32	5	XBFZZ		C5077430-394	57958	TAG,MARKER	EA	1

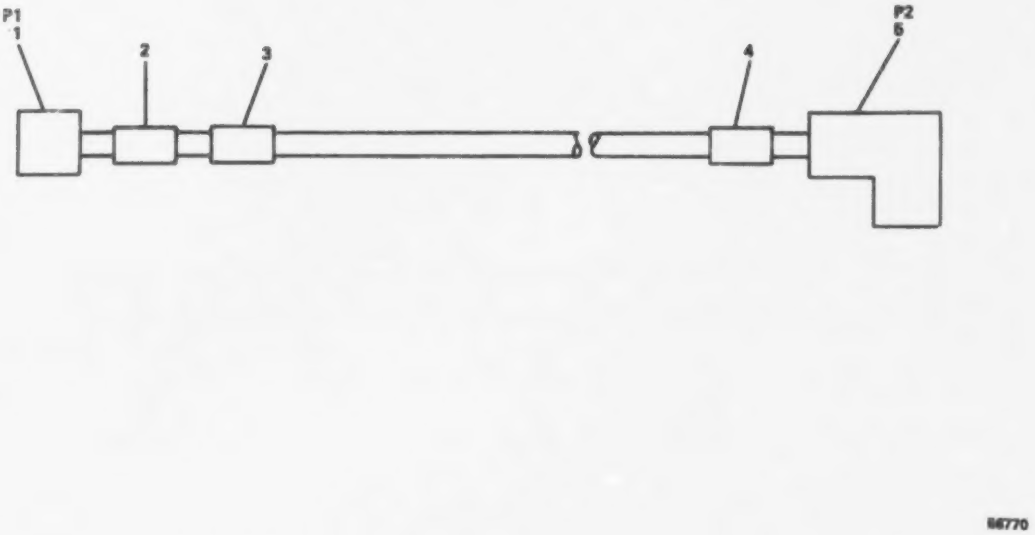


Figure C-33. Cable Assy., RF C5077375-2171

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)		(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 00 CABLE ASSY,RF (57958) C5077375-271			
C-33	1	PAFZZ	5935-00-928-3127	M39012-01-0005	81349	CONN,PLUG,ELEC		EA	1
C-33	2	XBFZZ		C5077428-7	57958	BAND,MARKER		EA	1
C-33	3	XBFZZ		C5077428-9	57958	BAND,MARKER		EA	1
C-33	4	XBFZZ		C5077428-8	57958	BAND,MARKER		EA	1
C-33	5	PAFZZ	5935-01-043-0637	M39012-05-0101	81349	CONN,PLUG,ELEC		EA	1

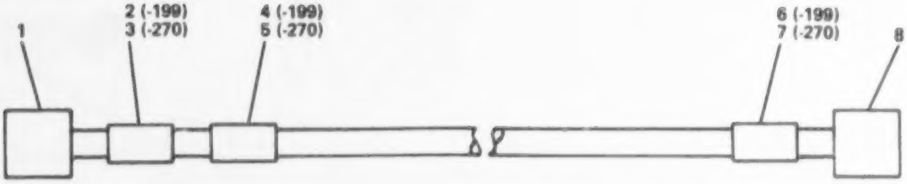


TABLE 1	
DASH NO.	REF DES
-199	W199
-270	W270

56771

Figure C-34. Cable Assy., RF C5077376

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00 CABLE ASSY,RF (57958) C5077376		
C-34	1	PAFZZ	5935-00-106-3925	5054451-1	57958	CONN,PLUG,ELEC	EA	2
C-34	2	XBFZZ		C5077428-10	57958	BAND,MARKER	EA	1
C-34	3	XBFZZ		C5077428-4	57958	BAND,MARKER	EA	1
C-34	4	XBFZZ		C5077428-12	57958	BAND,MARKER	EA	1
C-34	5	XBFZZ		C5077428-6	57958	BAND,MARKER	EA	1
C-34	6	XBFZZ		C5077428-11	57958	BAND,MARKER	EA	1
C-34	7	XBFZZ		C5077428-5	57958	BAND,MARKER	EA	1
C-34	8	PAFZZ	5935-00-928-3127	M39012-01-0005	81349	CONN,PLUG,ELEC	EA	2

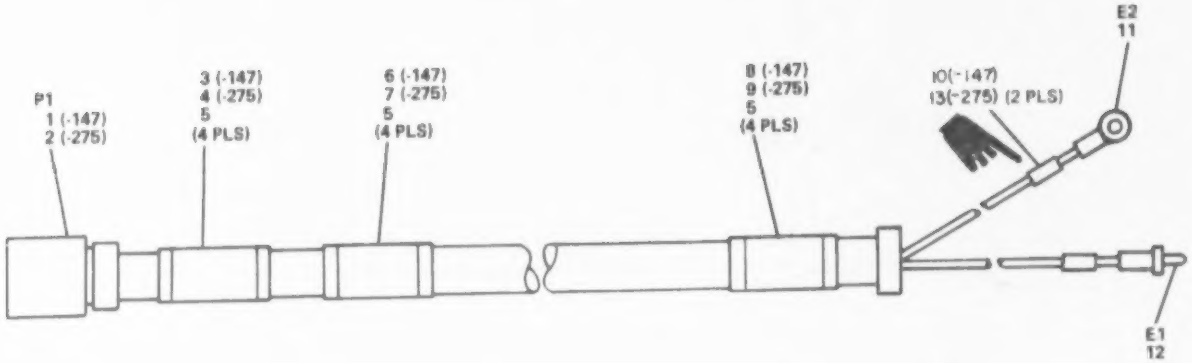


TABLE 1	
DASH NO.	REF DES
-147	W147
-275	W275

56772

Figure C-35. Cable Assy., SP C5077377

SECTION II REPAIR PARTS LIST

	(1) ILLUS (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
							GROUP 00 CABLE ASSY,SP (57958) C5077377		
	C-35	1	PAFZZ	5935-01-070-7484	MS3476L12-35Y	96906	CONN,PLUG,ELEC	EA	1
	C-35	2	PAFZZ	5935-00-165-3337	MS3476L12-35	96906	CONN,PLUG,ELEC	EA	1
	C-35	3	XBFZZ		C5077430-198	57958	TAG,MARKER	EA	1
	C-35	4	XBFZZ		C5077430-201	57955	TAG,MARKER	EA	1
	C-35	5	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	12
	C-35	6	XBFZZ		C5077430-200	57958	TAG,MARKER	EA	1
	C-35	7	XBFZZ		C5077430-411	57958	TAG,MARKER	EA	1
	C-35	8	XBFZZ		C5077430-199	57958	TAG,MARKER	EA	1
	C-35	9	XBFZZ		C5077430-202	57958	TAG,MARKER	EA	1
C	C-35	10	PAFZZ	5970-00-819-9569	M23053/5-103-9	81349	INSUL SLVG,ELEC	EA	2
	C-35	11	PAFZZ	5940-00-143-4771	MS25036-103	96906	TERMINAL,LUG	EA	2
	C-35	12	PAFZZ	5999-01-085-8104	M39029-1-12-12	81349	CONTACT,ELEC	EA	2
N	C-35	13	PAFZZ		5054630-3	57958	INSUL SLVG,ELEC	EA	2

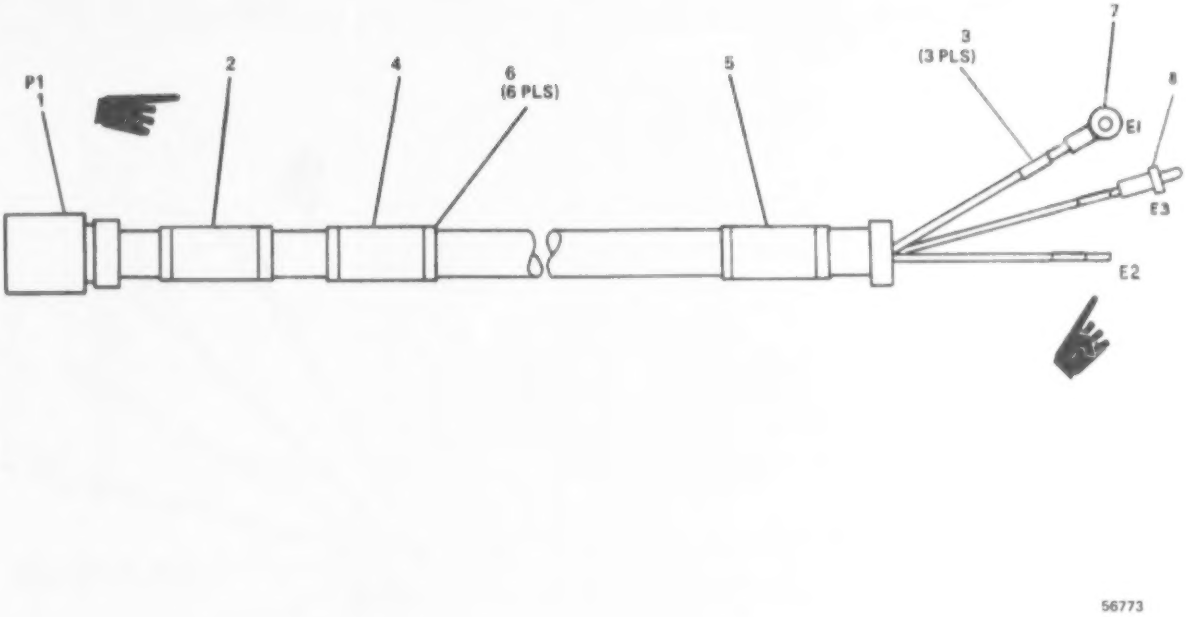


Figure C-36. Cable Assy., SP C5077378-146

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 00 CABLE ASSY,SP (57958) C5077378-146		
C-36	1	PAFZZ	5935-01-057-0430	MS3476L14-4S	96906	CONN,PLUG,ELEC	EA	1
C-36	2	XBFZZ		C5077430-204	57958	TAG,MARKER	EA	1
C-36	3	PAFZZ		5054630-1	57958	INSUL SLVG,ELEC	EA	3
C-36	4	PAFZZ		5054784-2	57958	BAND,MARKER	EA	1
C-36	5	XBFZZ		C5077430-205	57958	TAG,MARKER	EA	1
C-36	6	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	6
C-36	7	PAFZZ	5940-00-143-4794	MS25036-112	96906	TERMINAL,LUG	EA	1
C-36	8	PAFZZ	5999-01-085-8104	M39029-1-12-12	81349	CONTACT,ELEC	EA	1

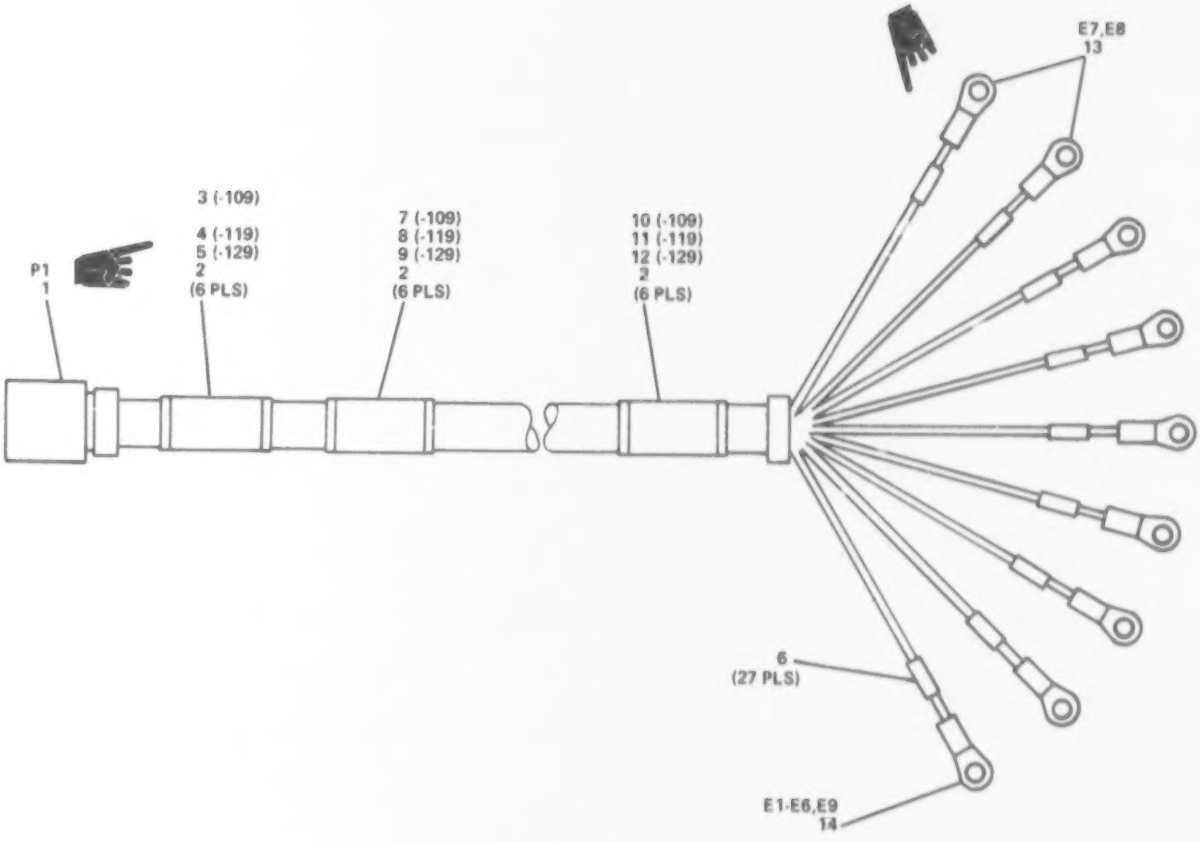


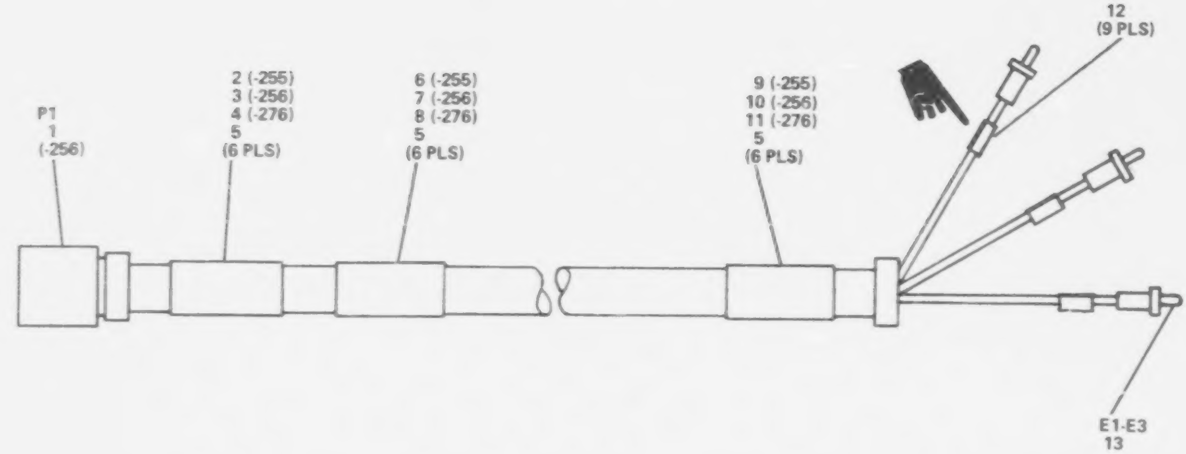
TABLE 1	
DASH NO.	REF DES
-109	W109
-119	W119
-129	W129

58403

Figure C-37. Cable Assy., SP C5077380

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 00 CABLE ASSY,SP (57958) C5077380		
C-37	1	PAFZZ		5054872-1	57958	CONN,PLUG,ELEC	EA	3
C-37	2	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	15
C-37	3	XBFZZ		C5077430-209	57958	TAG,MARKER	EA	1
C-37	4	XBFZZ		C5077430-212	57958	TAG,MARKER	EA	1
C-37	5	XBFZZ		C5077430-215	57958	TAG,MARKER	EA	1
C-37	6	PAFZZ		5054630-1	57958	INSUL SLVG ELEC	EA	27
C-37	7	XBFZZ		C5077430-211	57958	TAG,MARKER	EA	1
C-37	8	XBFZZ		C5077430-214	57958	TAG,MARKER	EA	1
C-37	9	XBFZZ		C5077430-217	57958	TAG,MARKER	EA	1
C-37	10	XBFZZ		C5077430-210	57958	TAG,MARKER	EA	1
C-37	11	XBFZZ		C5077430-213	57958	TAG,MARKER	EA	1
C-37	12	XBFZZ		C5077430-216	57958	TAG,MARKER	EA	1
C-37	13	PAFZZ	5940-00-143-4794	MS25036-112	96906	TERMINAL,LUG	EA	6
C-37	14	PAFZZ	5940-00-143-5284	MS25036-115	96906	TERMINAL,LUG	EA	21



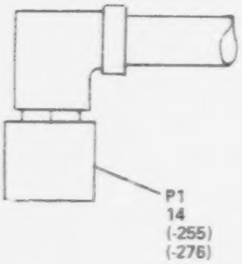


TABLE 1	
DASH NO.	REF DES
-255	W255
-256	W256
-276	W276

58404

Figure C-38. Cable Assy., SP C5077381

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00 CABLE ASSY,SP (57958) C5077381		
C-38	1	PAFZZ	5935-00-827-7492	MS3476L12-8S	96906	CONN,PLUG,ELEC	EA	1
C-38	2	XBFZZ		C5077430-218	57958	TAG,MARKER	EA	1
C-38	3	XBFZZ		C5077430-221	57958	TAG,MARKER	EA	1
C-38	4	XBFZZ		C5077430-224	57958	TAG,MARKER	EA	1
C-38	5	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	42
C-38	6	XBFZZ		C5077430-220	57958	TAG,MARKER	EA	1
C-38	7	XBFZZ		C5077430-223	57958	TAG,MARKER	EA	1
C-38	8	XBFZZ		C5077430-226	57958	TAG,MARKER	EA	1
C-38	9	XBFZZ		C5077430-219	57958	TAG,MARKER	EA	1
C-38	10	XBFZZ		C5077430-222	57958	TAG,MARKER	EA	1
C-38	11	XBFZZ		C5077430-225	57958	TAG,MARKER	EA	1
C-38	12	PAFZZ		5054630-1	57958	INSUL SLVG,ELEC	EA	9
C-38	13	PAFZZ	5999-01-032-1188	M39029-1-14-16	81349	CONTACT,ELEC	EA	9
C-38	14	PAFZZ	5935-00-165-3337	MS3476L12-3S	96906	CONN,PLUG,ELEC	EA	2

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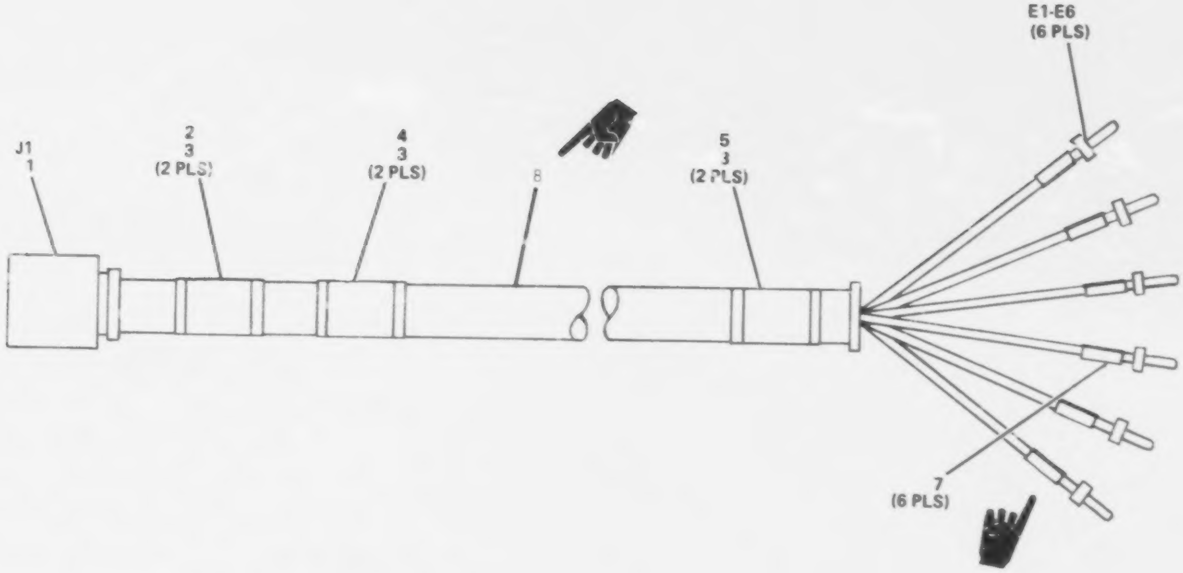

58405

Figure C-39. Cable Assy., SP C5077382-253

SECTION II REPAIR PARTS LIST

	(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
	(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
							GROUP 00 CABLE ASSY,SP (57958) C5077382-253		
	C-39	1	PAFZZ	5935-01-057-7630	MS3474L14-4P	96906	CONN,RCPT,ELEC	EA	1
	C-39	2	XBFZZ		C5077430-321	57958	TAG,MARKER	EA	1
	C-39	3	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	6
	C-39	4	XBFZZ		C5077430-323	57958	TAG,MARKER	EA	1
	C-39	5	XBFZZ		C5077430-322	57958	TAG,MARKER	EA	1
	C-39	6	PAFZZ	5999-01-032-1188	M39029-1-14-16	81349	CONTACT,ELEC	EA	6
C	C-39	7	PAFZZ		5054630-3	57958	INSUL SLVG,ELEC	EA	6
N	C-39	8	PAFZZ		C5077585-18	57958	CND ASSY, FLEX	EA	1

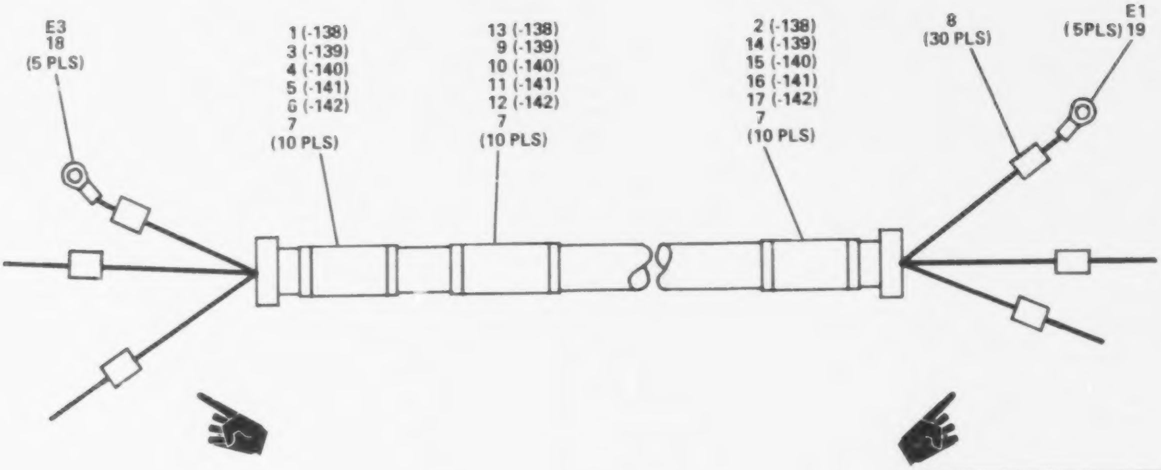

TABLE 1	
DASH NO.	REF DES
-138	W138
-139	W139
-140	W140
-141	W141
-142	W142

58406

Figure C-40. Cable Assy., SP C5077383

SECTION II REPAIR PARTS LIST

	(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
	(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
							GROUP 00 CABLE ASSY,SP (57958) C5077383		
	C-40	1	XBFZZ		C5077430-306	57958	TAG,MARKER	EA	5
	C-40	2	XBFZZ		C5077430-307	57958	TAG,MARKER	EA	1
	C-40	3	XBFZZ		C5077430-300	57958	TAG,MARKER	EA	1
	C-40	4	XBFZZ		C5077430-291	57958	TAG,MARKER	EA	1
	C-40	5	XBFZZ		C5077430-294	57958	TAG,MARKER	EA	1
	C-40	6	XBFZZ		C5077430-303	57958	TAG,MARKER	EA	1
	C-40	7	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	30
C	C-40	8	PAFZZ		5054630-3	57958	INSUL SLVG,ELEC	EA	30
	C-40	9	XBFZZ		C5077430-302	57958	TAG,MARKER	EA	1
	C-40	10	XBFZZ		C5077430-293	57958	TAG,MARKER	EA	1
	C-40	11	XBFZZ		C5077430-296	57958	TAG,MARKER	EA	1
	C-40	12	XBFZZ		C5077430-305	57958	TAG,MARKER	EA	1
	C-40	13	XBFZZ		C5077430-308	57958	TAG,MARKER	EA	1
	C-40	14	XBFZZ		C5077430-301	57958	TAG,MARKER	EA	1
	C-40	15	XBFZZ		C5077430-292	57958	TAG,MARKER	EA	1
	C-40	16	XBFZZ		C5077430-295	57958	TAG,MARKER	EA	1
	C-40	17	XBFZZ		C5077430-304	57958	TAG,MARKER	EA	1
C	C-40	18	PAFZZ		MS25036-112	96906	TERMINAL,LUG	EA	5
	C-40	19	PAFZZ	5940-00-143-4777	MS25036-157	96906	TERMINAL,LUG	EA	5

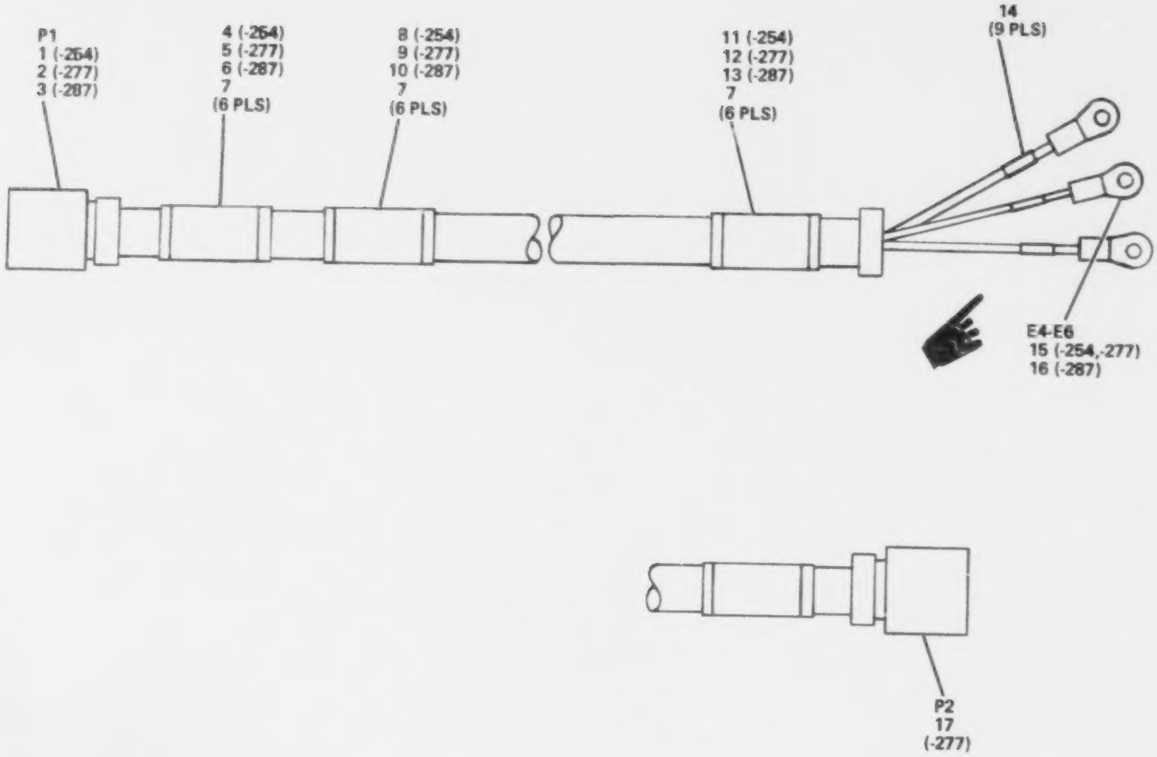

TABLE 1	
DASH NO.	REF DES
-254	W254
-277	W277
-287	W287

58407

Figure C-41. Cable Assy. C5077384

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 00 CABLE ASSY,SP (57958) C5077384		
C-41	1	PAFZZ	5935-01-009-1946	MS3456L18-9S	96906	CONN,PLUG,ELEC	EA	1
C-41	2	PAFZZ	5935-00-410-0197	MS3476L10-6P	96906	CONN,PLUG,ELEC	EA	1
C-41	3	PAFZZ	5935-01-057-0430	MS3476L14-4S	96906	CONN,PLUG,ELEC	EA	1
C-41	4	XBFZZ		C5077430-227	57958	TAG,MARKER	EA	1
C-41	5	XBFZZ		C5077430-230	57958	TAG,MARKER	EA	1
C-41	6	XBFZZ		C5077430-297	57958	TAG,MARKER	EA	1
C-41	7	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	18
C-41	8	XBFZZ		C5077430-229	57958	TAG,MARKER	EA	1
C-41	9	XBFZZ		C5077430-232	57958	TAG,MARKER	EA	1
C-41	10	XBFZZ		C5077430-299	57958	TAG,MARKER	EA	1
C-41	11	XBFZZ		C5077430-228	57958	TAG,MARKER	EA	1
C-41	12	XBFZZ		C5077430-231	57958	TAG,MARKER	EA	1
C-41	13	XBFZZ		C5077430-298	57958	TAG,MARKER	EA	1
C-41	14	PAFZZ		5054630-1	57958	INSUL SLVG,ELEC	EA	9
C-41	15	PAFZZ	5940-00-230-0515	MS25036-154	96906	TERMINAL,LUG	EA	6
C-41	16	PAFZZ	5940-00-143-4777	MS25036-157	96906	TERMINAL,LUG	EA	3
C-41	17	PAFZZ	5935-01-070-7484	MS3476L12-3SY	96906	CONN,PLUG,ELEC	EA	1

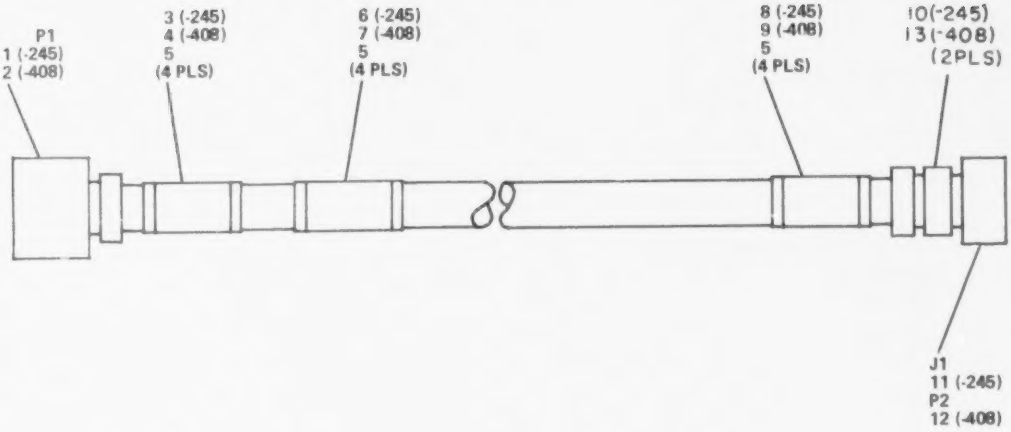

TABLE 1	
DASH NO.	REF DES
-245	W245
-408	W408

Figure C-42. Cable Assy., SP C5077385

SECTION II REPAIR PARTS LIST

	(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
	(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
							GROUP 00 CABLE ASSY,SP (57958) C5077385		
	C-42	1	PAFZZ	5935-01-098-0660	U393U	80058	CONN,PLUG,ELEC	EA	1
	C-42	2	PAFZZ	5935-00-131-9325	MS3106F18-9P	96906	CONN,PLUG,ELEC	EA	1
	C-42	3	XBFZZ		C5077430-233	57958	TAG,MARKER	EA	1
	C-42	4	XBFZZ		C5077430-236	57958	TAG,MARKER	EA	1
	C-42	5	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	12
	C-42	6	XBFZZ		C5077430-235	57958	TAG,MARKER	EA	1
	C-42	7	XBFZZ		C5077430-238	57958	TAG,MARKER	EA	1
	C-42	8	XBFZZ		C5077430-234	57958	TAG,MARKER	EA	1
	C-42	9	XBFZZ		C5077430-237	57958	TAC,MARKER	EA	1
C	C-42	10	PAFZZ		MS3437C13C	96906	ADPTR,CLP-CONN	EA	1
	C-42	11	PAFZZ	5935-01-026-8552	MS3474L12-10S	96906	CONN,RCPT,ELEC	EA	1
	C-42	12	PAFZZ	5935-00-093-8231	MS3106F18-9S	96906	CONN,PLUG,ELEC	EA	1
N	C-42	13	PAFZZ		5054432-3	57958	ADPTR,CLP-CONN	EA	2

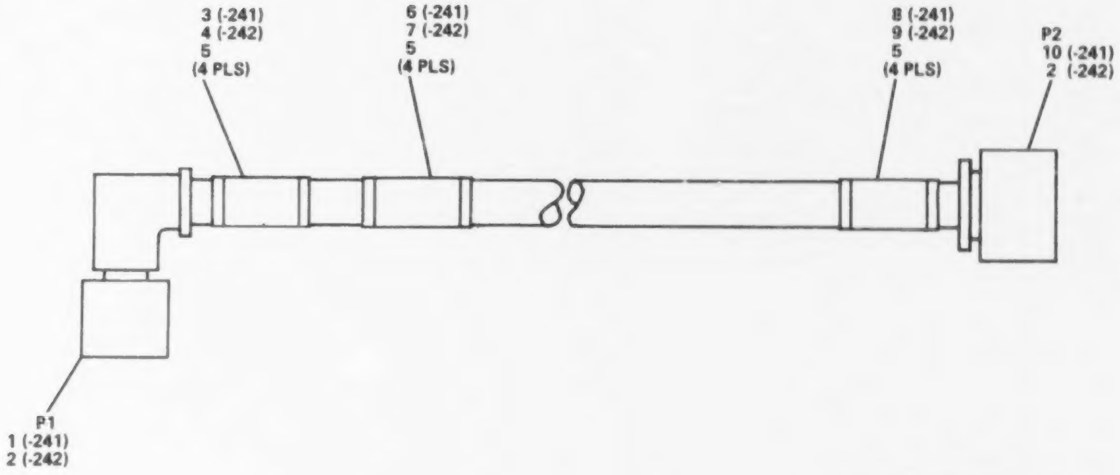

TABLE 1	
DASH NO.	REF DES
-241	W241
-242	W242

Figure C-43. Cable Assy., SP C5077387

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00 CABLE ASSY,SP (57958) C5077387		
C-43	1	PAFZZ	5935-01-132-1566	MS27473T16F35PA	96906	CONN,PLUG,ELEC	EA	1
C-43	2	PAFZZ	5935-00-553-9424	MS27473T16F35P	96906	CONN,PLUG,ELEC	EA	2
C-43	3	XBFZZ		C5077430-309	57958	TAG,MARKER	EA	1
C-43	4	XBFZZ		C5077430-239	57958	TAG,MARKER	EA	1
C-43	5	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	12
C-43	6	XBFZZ		C5077430-311	57958	TAG,MARKER	EA	1
C-43	7	XBFZZ		C5077430-241	57958	TAG,MARKER	EA	1
C-43	8	XBFZZ		C5077430-310	57958	TAG,MARKER	EA	1
C-43	9	XBFZZ		C5077430-240	57958	TAG,MARKER	EA	1
C-43	10	PAFZZ	5935-00-496-3864	MS27473T14F35S	96906	CONN,PLUG,ELEC	EA	1

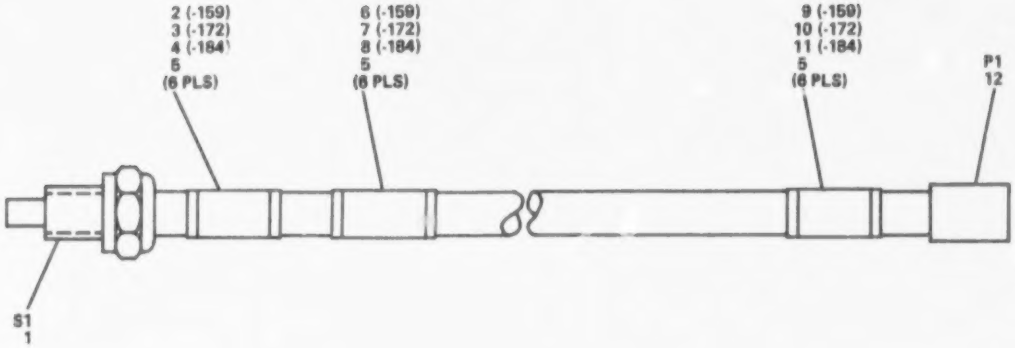

TABLE 1

DASH NO.	REF DES
-159	W159
-172	W172
-184	W184

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Figure C-44. Cable Assy., SP C5077390

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00 CABLE ASSY,SP (57958) C5077390		
C-44	1	XA		5054974-2	57958	SH,LIQUID FLOW	EA	3
C-44	2	XBFZZ		C5077430-243	57958	TAG,MARKER	EA	1
C-44	3	XBFZZ		C5077430-246	57958	TAG,MARKER	EA	1
C-44	4	XBFZZ		C5077430-249	57958	TAG,MARKER	EA	1
C-44	5	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	12
C-44	6	XBFZZ		C5077430-244	57958	TAG,MARKER	EA	1
C-44	7	XBFZZ		C5077430-247	57958	TAG,MARKER	EA	1
C-44	8	XBFZZ		C5077430-250	57958	TAG,MARKER	EA	1
C-44	9	XBFZZ		C5077430-242	57958	TAG,MARKER	EA	1
C-44	10	XBFZZ		C5077430-245	57958	TAG,MARKER	EA	1
C-44	11	XBFZZ		C5077430-248	57958	TAG,MARKER	EA	1
C-44	12	PAFZZ	5935-00-496-7835	MS3476L12-10S	96906	CONN,PLUG,ELEC	EA	3

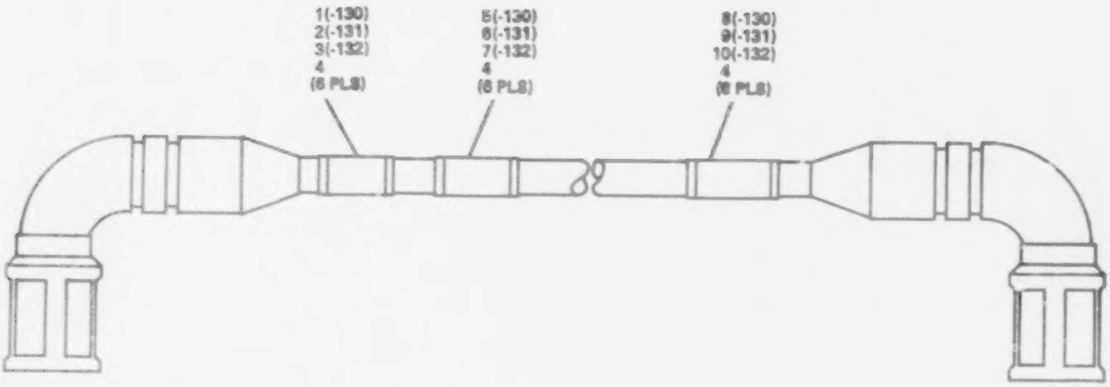

TABLE 1	
DASH NO	REF DES
-130	W130
-131	W131
-132	W132

Figure C-45. Cable Assy., RF C5077394

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00 CABLE ASSY,RF (57958) C5077394		
C-45	1	XBFZZ		C5077430-333	57958	TAG,MARKER	EA	1
C-45	2	XBFZZ		C5077430-336	57958	TAG,MARKER	EA	1
C-45	3	XBFZZ		C5077430-339	57958	TAG,MARKER	EA	1
C-45	4	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	18
C-45	5	XBFZZ		C5077430-335	57958	TAG,MARKER	EA	1
C-45	6	XBFZZ		C5077430-338	57958	TAG,MARKER	EA	1
C-45	7	XBFZZ		C5077430-341	57958	TAG,MARKER	EA	1
C-45	8	XBFZZ		C5077430-334	57958	TAG,MARKER	EA	1
C-45	9	XBFZZ		C5077430-337	57958	TAG,MARKER	EA	1
C-45	10	XBFZZ		C5077430-340	57958	TAG,MARKER	EA	1

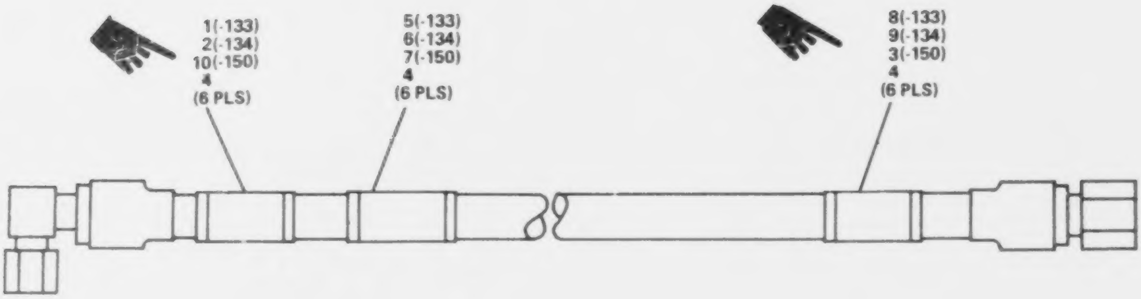

TABLE	
DASH NO	REF DES
-133	W133
-134	W134
-150	W150

58412

Figure C-46. Cable Assy., RF C5077395

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00 CABLE ASSY,RF (57958) C5077395		
C-46	1	XBFZZ		C5077430-342	57958	TAG,MARKER	EA	1
C-46	2	XBFZZ		C5077430-345	57958	TAG,MARKER	EA	1
C-46	3	XBFZZ		C5077430-349	57958	TAG,MARKER	EA	1
C-46	4	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	18
C-46	5	XBFZZ		C5077430-344	57958	TAG,MARKER	EA	1
C-46	6	XBFZZ		C5077430-347	57958	TAG,MARKER	EA	1
C-46	7	XBFZZ		C5077430-350	57958	TAG,MARKER	EA	1
C-46	8	XBFZZ		C5077430-343	57958	TAG,MARKER	EA	1
C-46	9	XBFZZ		C5077430-346	57958	TAG,MARKER	EA	1
C-46	10	XBFZZ		C5077430-348	57958	TAG,MARKER	EA	1

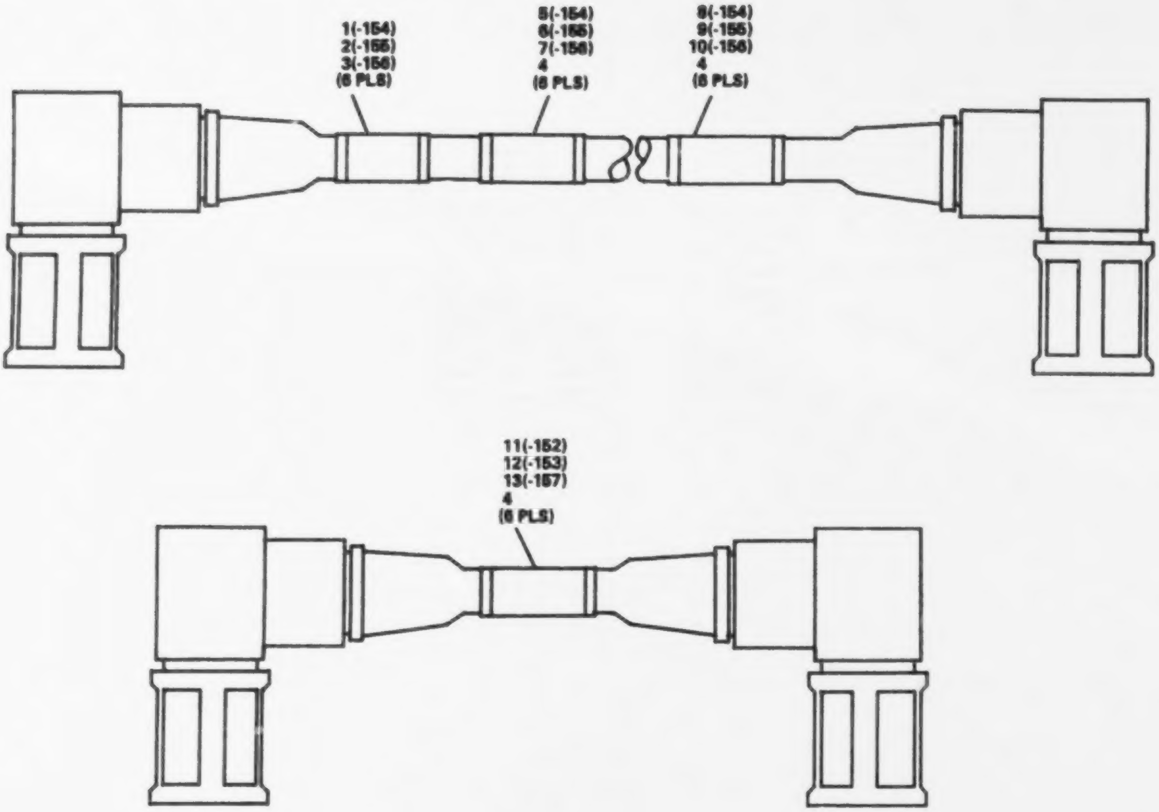

TABLE 1	
DASH NO	REF DES
-152	W152
-153	W153
-154	W154
-155	W155
-156	W156
-157	W157

98413

Figure C-47. Cable Assy., RF C5077396

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 00 CABLE ASSY,RF (57958) C5077396		
C-47	1	XBFZZ		C5077430-357	57958	TAG,MARKER	EA	1
C-47	2	XBFZZ		C5077430-360	57958	TAG,MARKER	EA	1
C-47	3	XBFZZ		C5077430-363	57958	TAG,MARKER	EA	1
C-47	4	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	36
C-47	5	XBFZZ		C5077430-359	57958	TAG,MARKER	EA	1
C-47	6	XBFZZ		C5077430-362	57958	TAG,MARKER	EA	1
C-47	7	XBFZZ		C5077430-365	57958	TAG,MARKER	EA	1
C-47	8	XBFZZ		C5077430-358	57958	TAG,MARKER	EA	1
C-47	9	XBFZZ		C5077430-361	57958	TAG,MARKER	EA	1
C-47	10	XBFZZ		C5077430-364	57958	TAG,MARKER	EA	1
C-47	11	XBFZZ		C5077430-351	57958	TAG,MARKER	EA	1
C-47	12	XBFZZ		C5077430-352	57958	TAG,MARKER	EA	1
C-47	13	XBFZZ		C5077430-353	57958	TAG,MARKER	EA	1

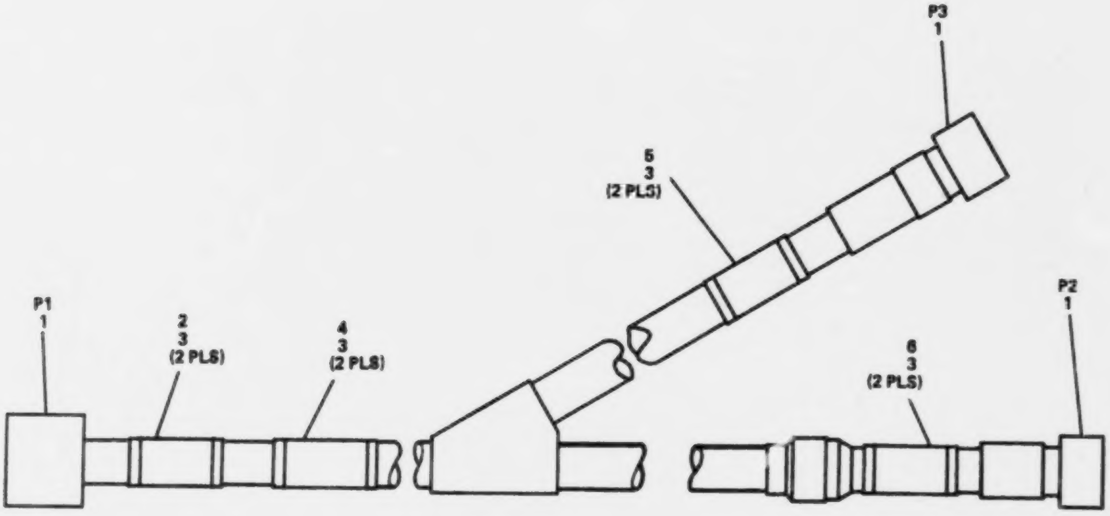

Figure C-48. Wiring Harness, Branched C5077397

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 00 WIRING HARNESS C5077397		
C-48	1	PAFZZ	5935-00-553-9424	MS27473T16F35P	96906	CONN,PLUG,ELEC	EA	3
C-48	2	XBFZZ		C5077430-373	57958	TAG,MARKER	EA	1
C-48	3	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	8
C-48	4	XBDDD		C5077585-7	57958	CND ASSY,FLEX	EA	1
C-48	5	XBFZZ		C5077430-375	57958	TAG,MARKER	EA	1
C-48	6	XBFZZ		C5077430-374	57958	TAG,MARKER	EA	1

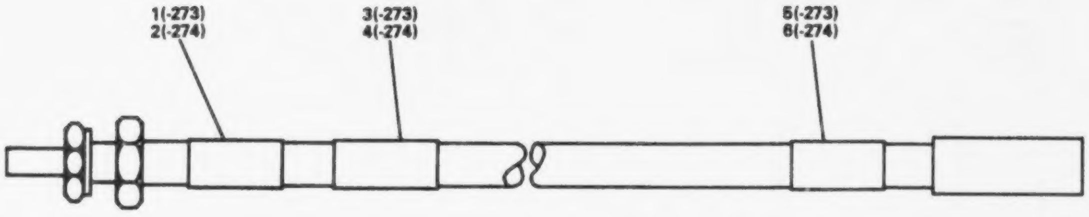

TABLE 1	
DASH NO	REF DES
-273	W273
-274	W274

Figure C-49. Cable Assy., RF C5077399

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00		
						CABLE ASSY		
						(57958)		
						C5077398		
C-49	1	XBFZZ		C5077429-2	57958	BAND,MARKER	EA	1
C-49	2	XBFZZ		C5077429-5	57958	BAND,MARKER	EA	1
C-49	3	XBFZZ		C5077429-3	57958	BAND,MARKER	EA	1
C-49	4	XBFZZ		C5077429-6	57958	BAND,MARKER	EA	1
C-49	5	XBFZZ		C5077429-1	57958	BAND,MARKER	EA	1
C-49	6	XBFZZ		C5077429-4	57958	BAND,MARKER	EA	1

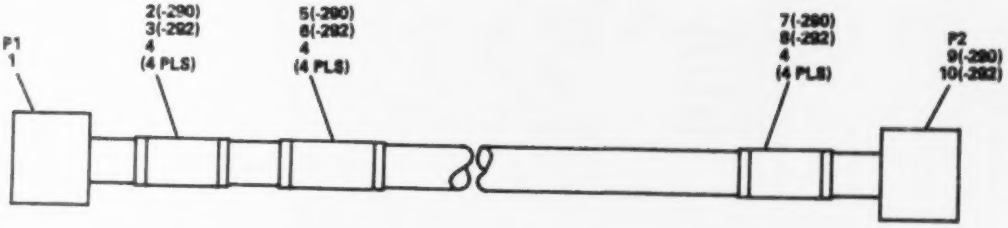

TABLE 1	
DASH NO	REF DES
-290	W290
-292	W292

58416

Figure C-50. Cable Assy., RF C5077399

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00 CABLE ASSY,RF (57958) C5077399		
C-50	1	PAFZZ	5935-00-928-3127	M39012-01-0005	81349	CONN,PLUG,ELEC	EA	2
C-50	2	XBFZZ		C5077430-376	57958	TAG,MARKER	EA	1
C-50	3	XBFZZ		C5077430-379	57958	TAG,MARKER	EA	1
C-50	4	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	12
C-50	5	XBFZZ		C5077430-378	57958	TAG,MARKER	EA	1
C-50	6	XBFZZ		C5077430-381	57958	TAG,MARKER	EA	1
C-50	7	XBFZZ		C5077430-377	57958	TAG,MARKER	EA	1
C-50	8	XBFZZ		C5077430-380	57958	TAG,MARKER	EA	1
C-50	9	PAFZZ	5935-00-106-3925	5054451-1	57958	CONN,PLUG,ELEC	EA	1
C-50	10	PAFZZ	5935-01-043-9289	UG959BU	80058	CONN,PLUG,ELEC	EA	1

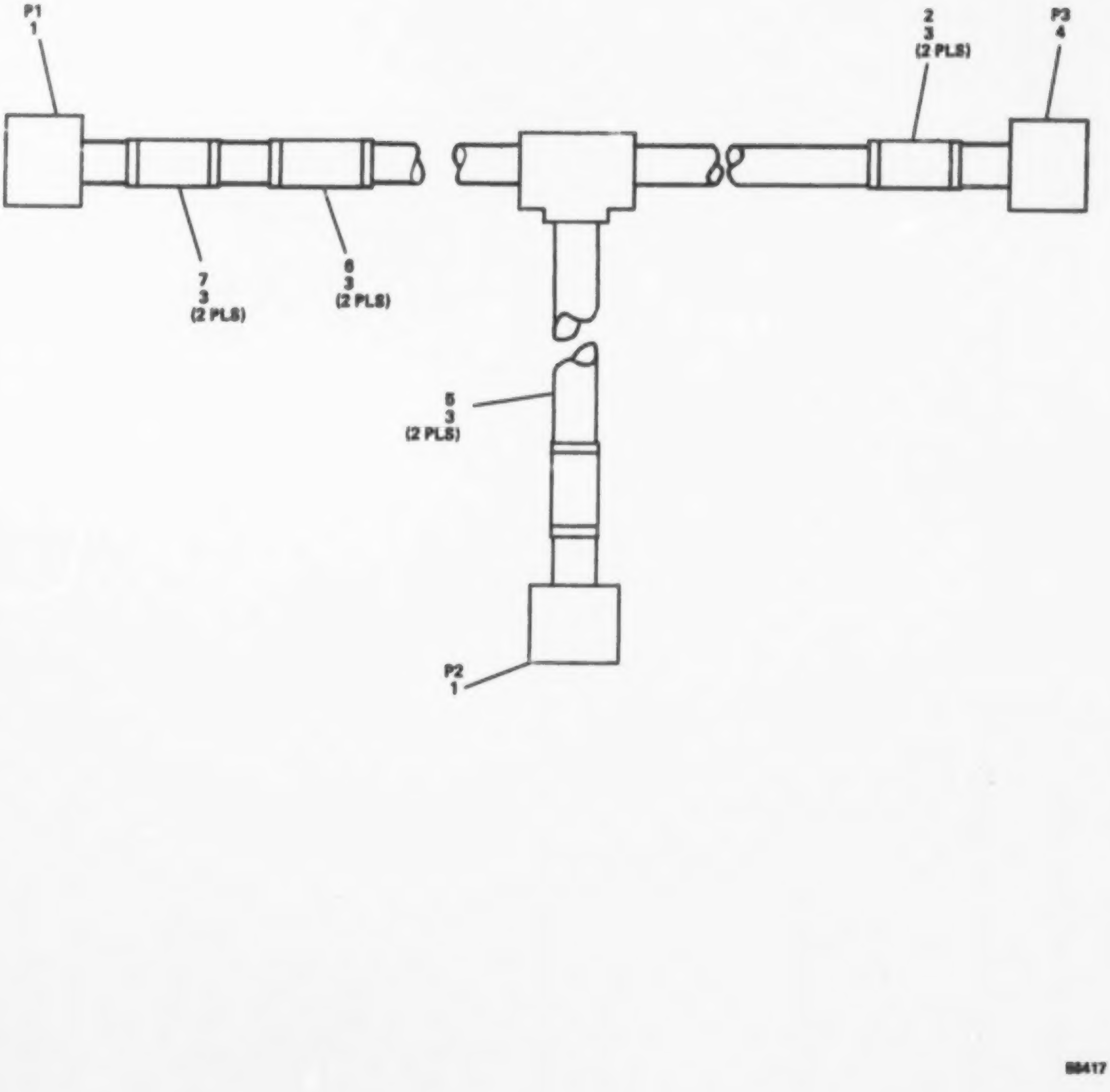

Figure C-51. Cable Assy., SP C5077400

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00 CABLE ASSY,SP (57958) C5077400		
C-51	1	PAFZZ	5935-00-172-1008	MS3476L16-26S	96906	CONN,PLUG,ELEC	EA	2
C-51	2	XBFZZ		C5077430-400	57958	TAG,MARKER	EA	1
C-51	3	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	8
C-51	4	PAFZZ	5935-00-165-3342	MS3476L16-26P	96906	CONN,PLUG,ELEC	EA	1
C-51	5	XBFZZ		C5077430-399	57958	TAG,MARKER	EA	1
C-51	6	XBFZZ		C5077430-401	57958	TAG,MARKER	EA	1
C-51	7	XBFZZ		C5077430-398	57958	TAG,MARKER	EA	1

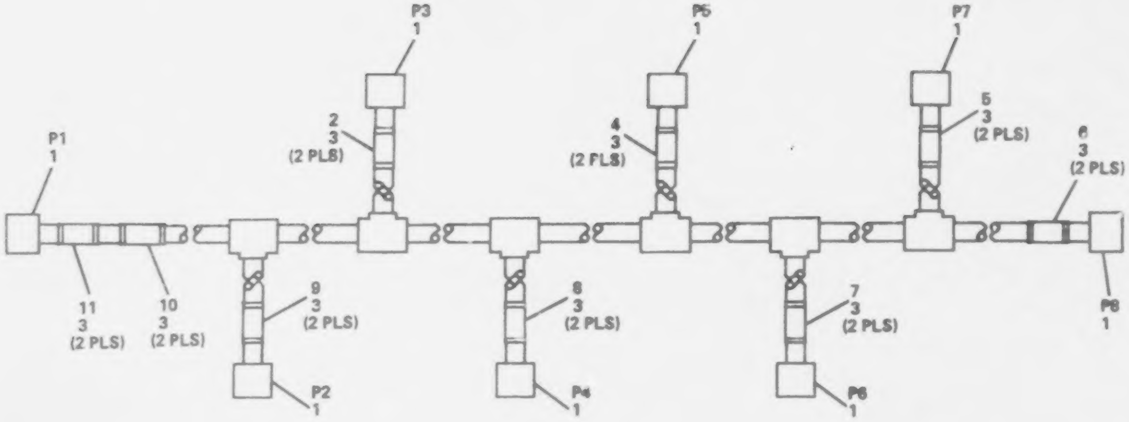

Figure C-52. Cable Assy., SP C5077401

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00 CABLE ASSY,SP (57958) C5077401		
C-52	1	PAFZZ	5935-00-496-7838	MS3476L14-19S	96906	CONN,PLUG,ELEC	EA	8
C-52	2	XBFZZ		C5077430-404	57958	TAG,MARKER	EA	1
C-52	3	XBFZZ		C5077430-406	57958	TAG,MARKER	EA	1
C-52	3	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	18
C-52	5	XBFZZ		C5077430-408	57958	TAG,MARKER	EA	1
C-52	6	XBFZZ		C5077430-409	57958	TAG,MARKER	EA	1
C-52	7	XBFZZ		C5077430-407	57958	TAG,MARKER	EA	1
C-52	8	XBFZZ		C5077430-405	57958	TAG,MARKER	EA	1
C-52	9	XBFZZ		C5077430-403	57958	TAG,MARKER	EA	1
C-52	10	XBFZZ		C5077430-410	57958	TAG,MARKER	EA	1
C-52	11	XBFZZ		C5077430-402	57958	TAG,MARKER	EA	1

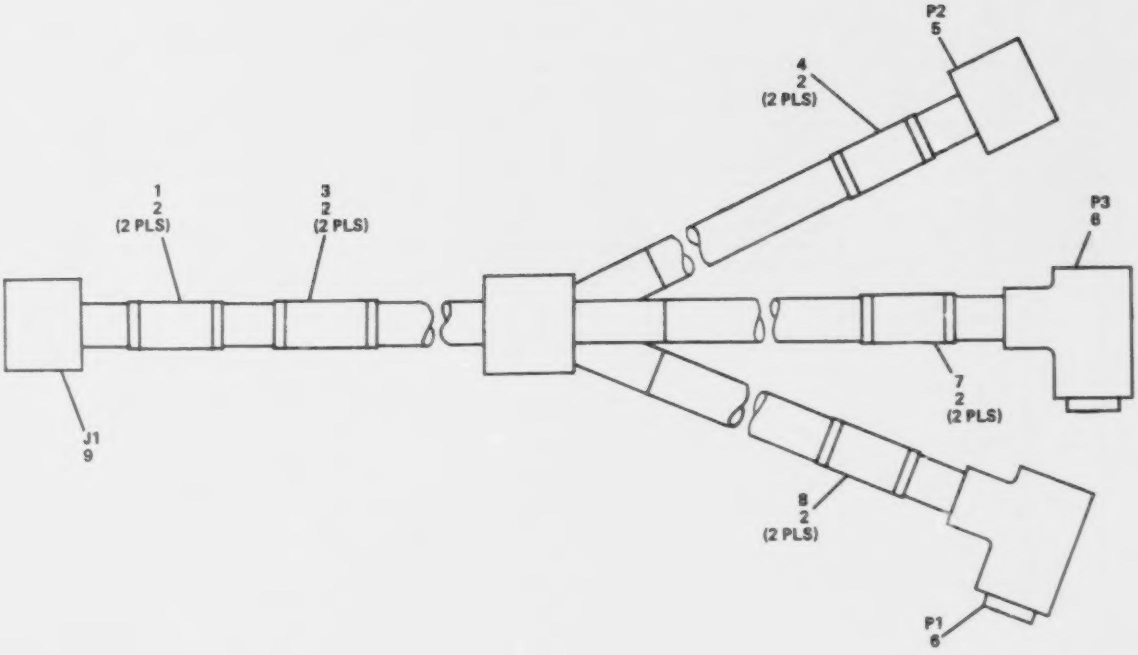

Figure C-53. Cable Assy., SP C5077406

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00 WIRING HARNESS (57958) C5077406		
C-53	1	XBFZZ		C5077430-382	57958	TAG,MARKER	EA	1
C-53	2	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	10
C-53	3	XBFZZ		C5077430-386	57958	TAG,MARKER	EA	1
C-53	4	XBFZZ		C5077430-384	57958	TAG,MARKER	EA	1
C-53	5	PAFZZ	5935-00-410-0197	MS3476L10-6P	96906	CONN,PLUG,ELEC	EA	1
C-53	6	PAFZZ	5935-00-815-2325	MW10MMD17	81349	CONN,PLUG,ELEC	EA	2
C-53	7	XBFZZ		C5077430-385	57958	TAG,MARKER	EA	1
C-53	8	XBFZZ		C5077430-383	57958	TAG,MARKER	EA	1
C-53	9	PAFZZ	5935-00-608-4561	MS3100R28-21S	96906	CONN,RCPT,ELEC	EA	1

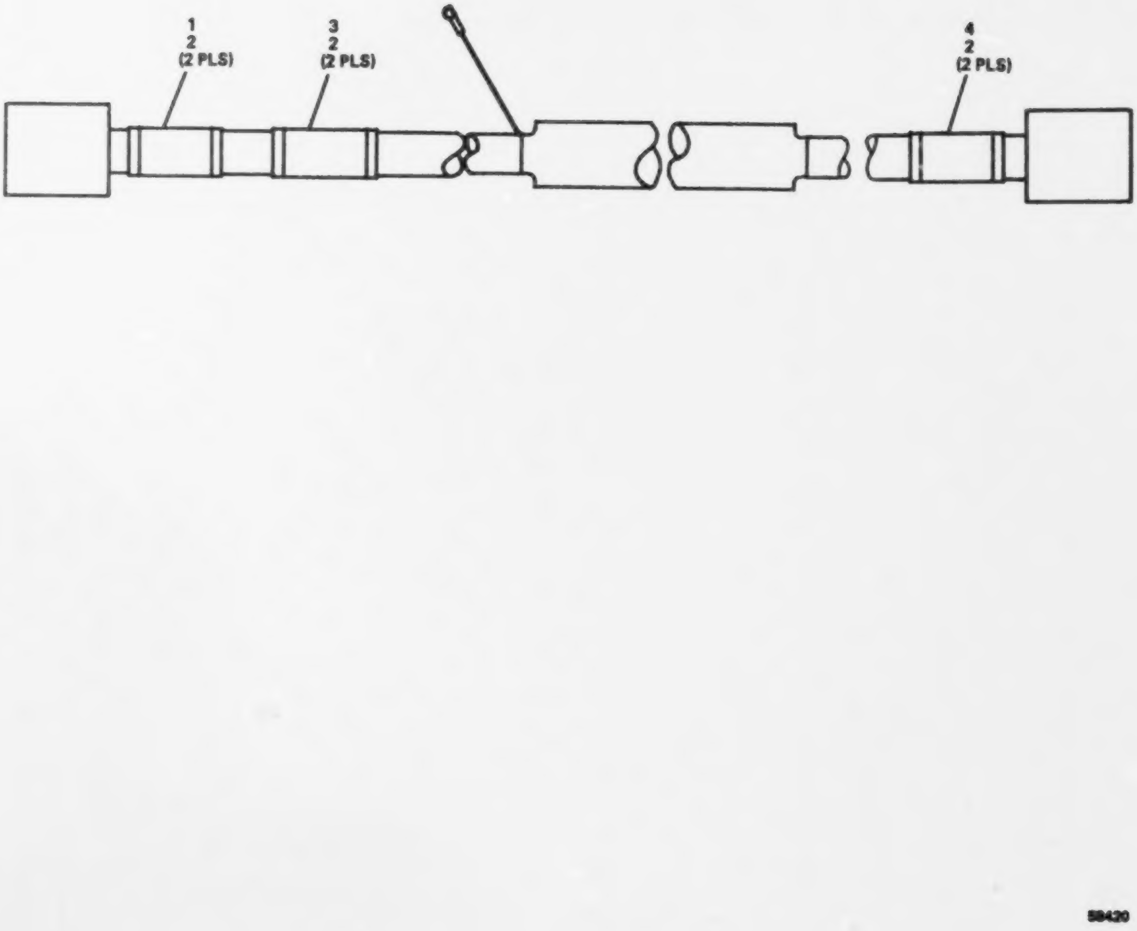

Figure C-54. Cable Assy., SP C5077411-411

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 00 CABLE ASSY,SP (57958) C5077411-411		
C-54	1	XBFZZ		C5077430-369	57958	TAG,MARKER	EA	1
C-54	2	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	1
C-54	3	XBFZZ		C5077430-371	57958	TAG,MARKER	EA	1
C-54	4	XBFZZ		C5077430-370	57958	TAG,MARKER	EA	1

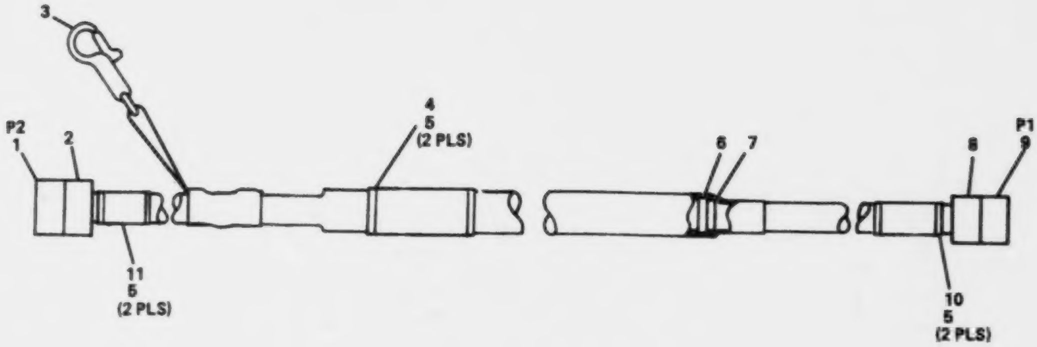

Figure C-55. Cable Assy., SP C5077412-412

SECTION II REPAIR PARTS LIST

	(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
							GROUP 00 CABLE ASSY.SP (57958) C5077412-412		
	C-55	1	PAFZZ	5935-00-518-3576	MS3476L18-32S	96906	CONN,PLUG,ELEC	EA	1
C	C-55	2	PAFZZ		5054432-14	57958	ADPTR,CLP-CONN	EA	1
	C-55	3	PAFZZ	5340-00-838-9402	NAS1282B10	80205	SNAP HOOK	EA	1
	C-55	4	XBFZZ		C5077430-389	57958	TAG,MARKER	EA	1
	C-55	5	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	6
	C-55	6	XA	5325-00-276-6089	MS35489-16	96906	GROMMET,NM	EA	213
	C-55	7	XA		5054810-4	57958	CORE,COIL	EA	214
C	C-55	8	PAFZZ		5054432-13	57958	ADPTR,CLP-CONN	EA	1
	C-55	9	PAFZZ		M83723-87G1831N	81349	CONN,PLUG,ELEC	EA	1
	C-55	10	XBFZZ		C5077430-387	57958	TAG,MARKER	EA	1
	C-55	11	XBFZZ		C5077430-388	57958	TAG,MARKER	EA	1

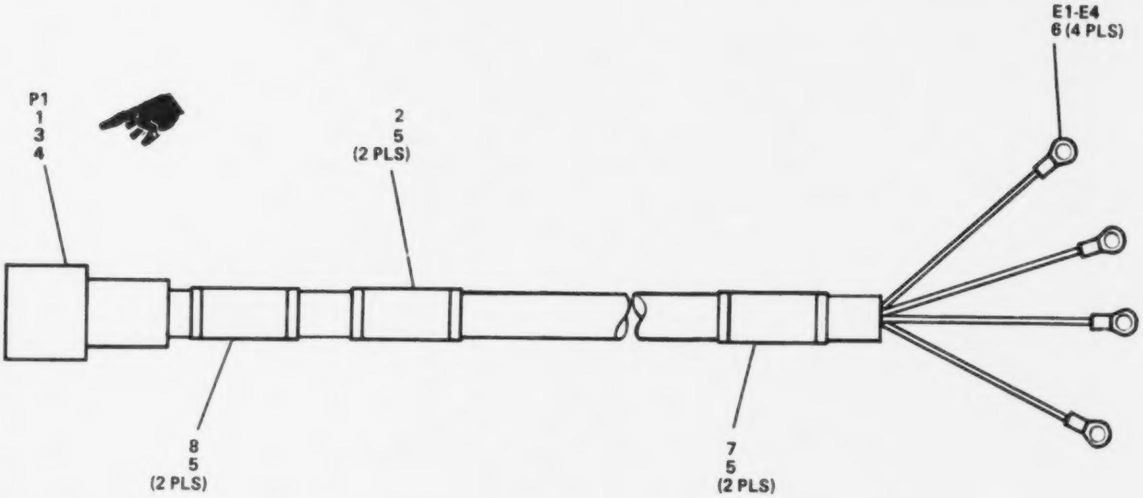

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Figure C-56. Cable Assy., SP C5077453-410

SECTION II REPAIR PARTS LIST

	(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
	(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
							GROUP 00 CABLE ASSY,SP (57958) C5077453-410		
C	C-56	1	PAFZZ	5935-00-189-3932	MS3106F18-1S	96906	CONN,PLUG,ELEC	EA	1
C	C-56	2	XBFZZ		C50774-30-393	57958	TAG,MARKER	EA	1
C	C-56	3	PAFZZ	5935-01-158-5335	5054432-20	57958	ADPTR,CLP-CONN	EA	1
C	C-56	4	PAFZZ	5935-00-161-3096	MS25042-14D	96906	COVER,ELEC CONN	EA	1
	C-56	5	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	6
	C-56	6	PAFZZ	5940-00-813-0698	MS25036-101	96906	TERMINAL,LUG	EA	4
	C-56	7	XBFZZ		C5077430-391	57958	TAG,MARKER	EA	1
	C-56	8	XBFZZ		C5077430-390	57958	TAG,MARKER	EA	1

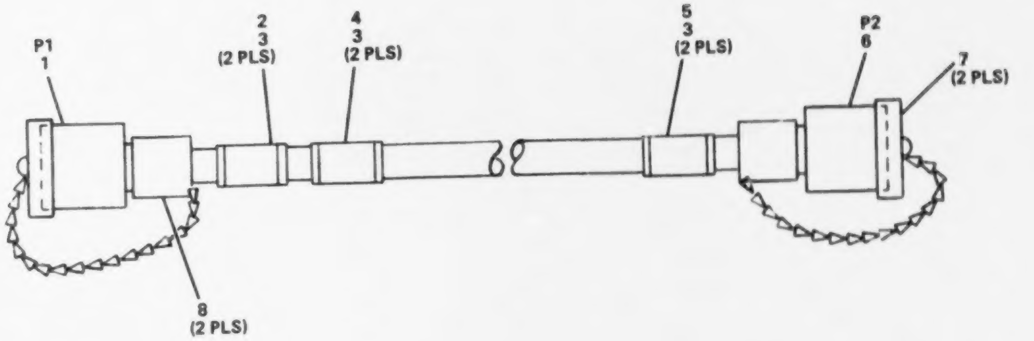

Figure C-57. Cable Assy., SP C5114416

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00 CABLE ASSY,SP (57958) C5114416		
C-57	1	PAFZZ	5935-00-402-1466	MS3106F20-27P	96906	CONN,PLUG,ELEC	EA	1
C-57	2	XBFZZ		C5077430-415	57958	TAG,MARKER	EA	1
C-57	3	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	6
C-57	4	XBFZZ		C5077430-414	57958	TAG,MARKER	EA	1
C-57	5	XBFZZ		C5077430-416	57958	TAG,MARKER	EA	1
C-57	6	PAFZZ	5935-00-417-8737	MS3106F20-27S	96906	CONN,PLUG,ELEC	EA	1
C-57	7	PAFZZ	5935-00-885-3852	MS25042-20D	96906	COVER,ELEC CONN	EA	2
C-57	8	PAFZZ		5054432-1	57958	ADPTR,CLP-CONN	EA	2

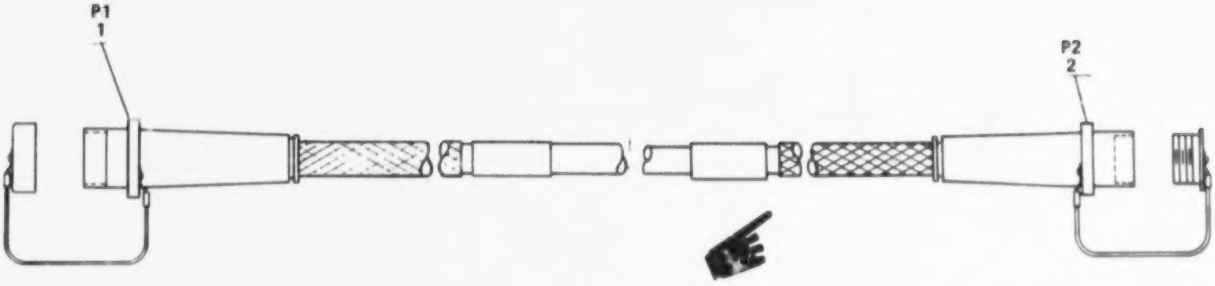

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Figure C-58. Cable Assy., PWR 5051722-1

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00 WIRING HARNESS (57958) 5051722-1		
C-58	1	PAFZZ		MS90557C52412SW	96906	CONN,PLUG,ELEC	EA	1
C-58	2	PAFZZ		MS90556C52412PW	96906	CONN,PLUG,ELEC	EA	1

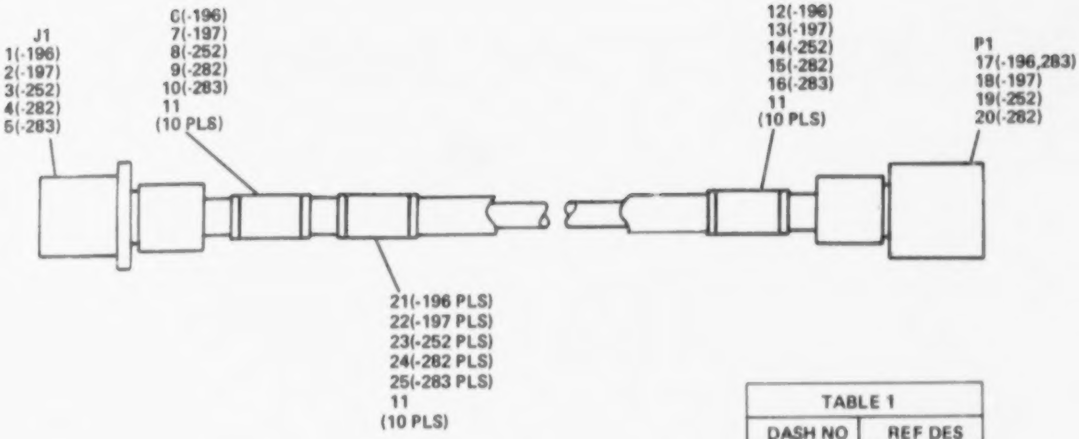
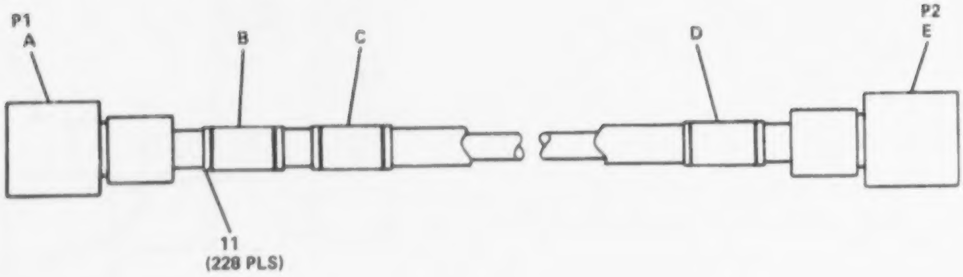


TABLE 1

DASH NO	REF DES
-196	W196
-197	W197
-252	W252
-282	W283
-283	W282

58430

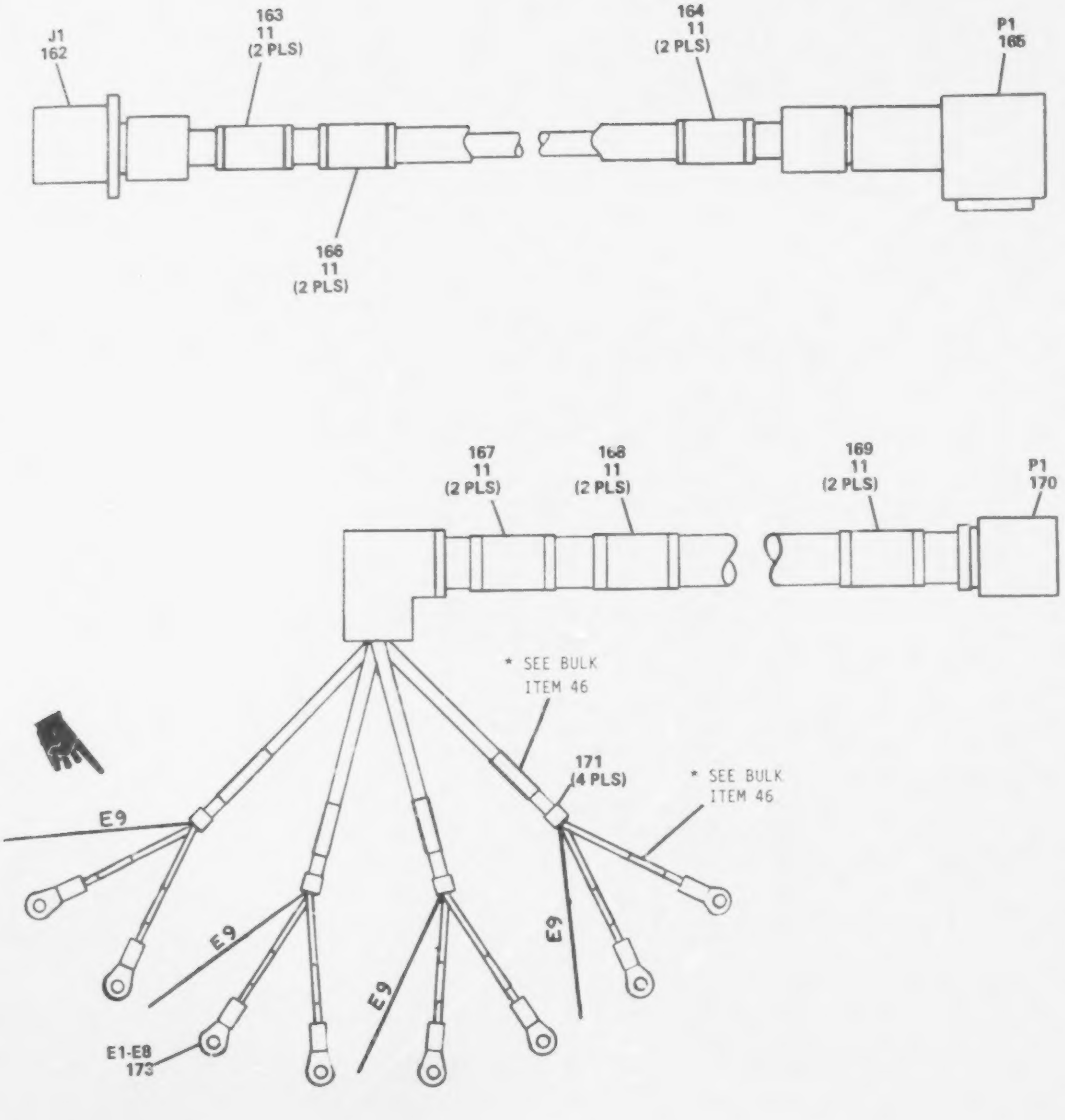
Figure C-59. Cable Assy., SP 5053205 (Sheet 1 of 5)



CABLE		ITEM NO.				
DASH NO.	REF DES	A	B	C	D	E
-105	W105	26	45	82	119	17
-106	W106	27	46	83	120	36
-107	W107	28	47	84	121	36
-108	W108	29	48	85	122	156
-115	W115	26	49	86	123	17
-116	W116	27	50	87	124	36
-117	W117	28	51	88	125	36
-118	W118	29	52	89	126	40
-125	W125	26	53	90	127	17
-126	W126	27	54	91	128	36
-127	W127	28	55	92	129	36
-128	W128	29	56	93	130	157
-151	W151	30	57	94	131	30
-160	W160	18	58	95	132	18
-165	W165	31	59	96	133	31
-173	W173	32	60	97	134	18
-177	W177	31	61	98	135	31
-185	W185	26	62	99	136	18
-189	W189	31	63	100	137	31
-195	W195	33	64	101	138	35
-200	W200	34	65	102	139	32
-214	W214	35	66	103	140	37
-215	W215	36	67	104	141	38
-221	W221	37	68	105	142	35
-222	W222	38	69	106	143	—
-224	W224	39	70	107	144	158
-225	W225	26	71	108	145	44
-226	W226	36	72	109	146	41
-231	W231	40	73	110	147	150
-234	W234	41	74	111	148	41
-236	W236	42	75	112	149	42
-239	W239	17	76	113	150	160
-247	W247	26	77	114	151	17
-249	W249	31	78	115	152	160
-250	W250	19	79	116	153	161
-251	W251	43	80	117	154	42
-289	W289	44	81	118	155	26

58425

Figure C-59. Cable Assy., SP 5053205 (Sheet 2 of 5)



58426

Figure C-59. Cable Assy., SP 5053205 (Sheet 3 of 5)

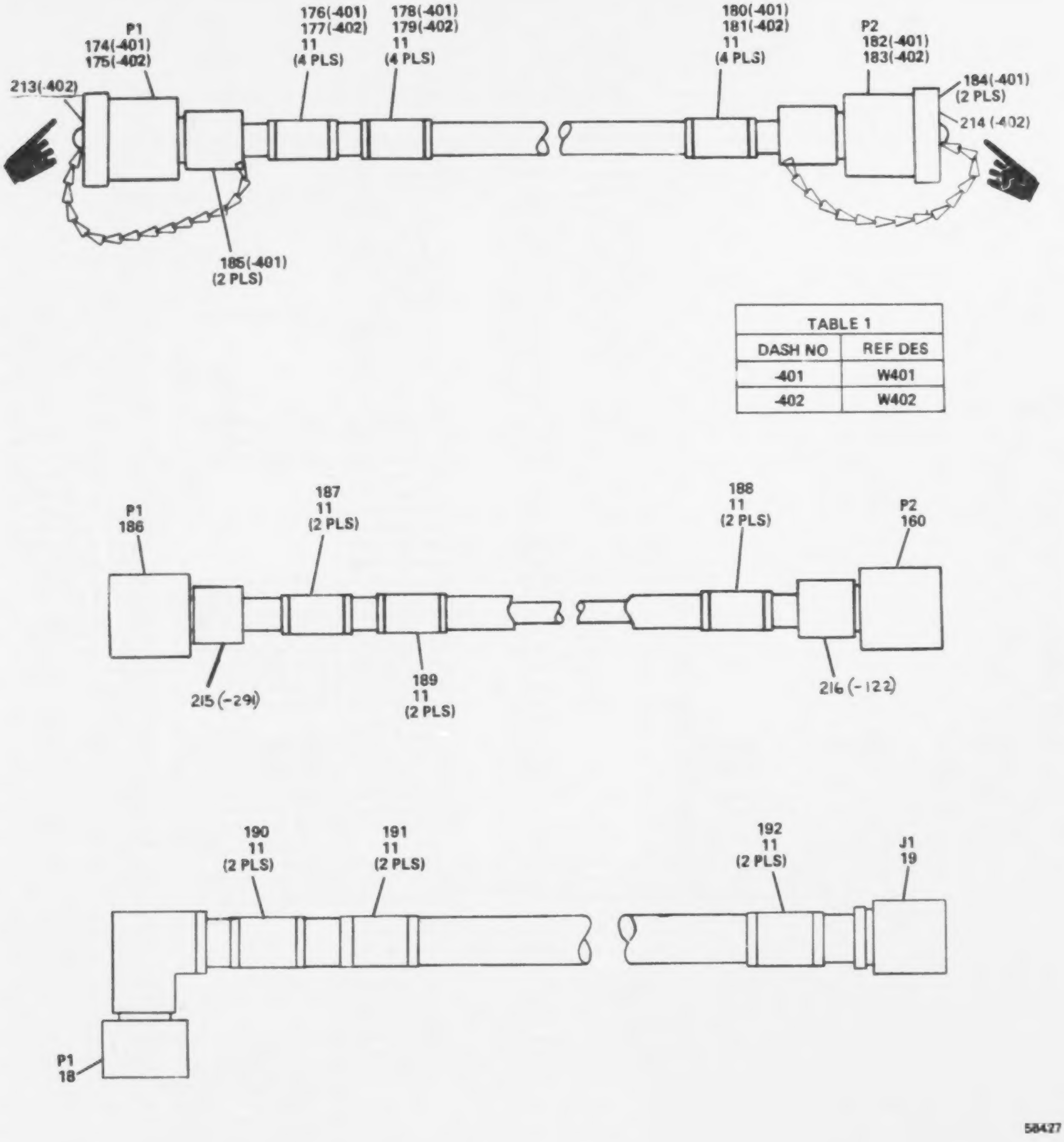
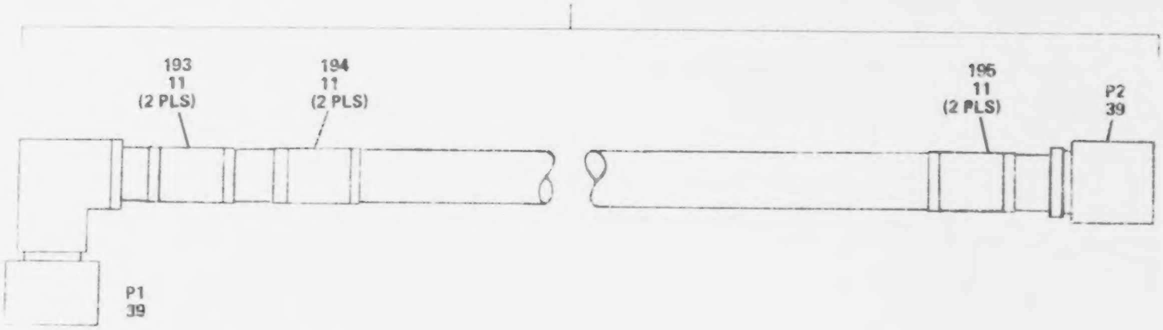


TABLE 1	
DASH NO	REF DES
-401	W401
-402	W402

Figure C-59. Cable Assy., SP 5053205 (Sheet 4 of 5)



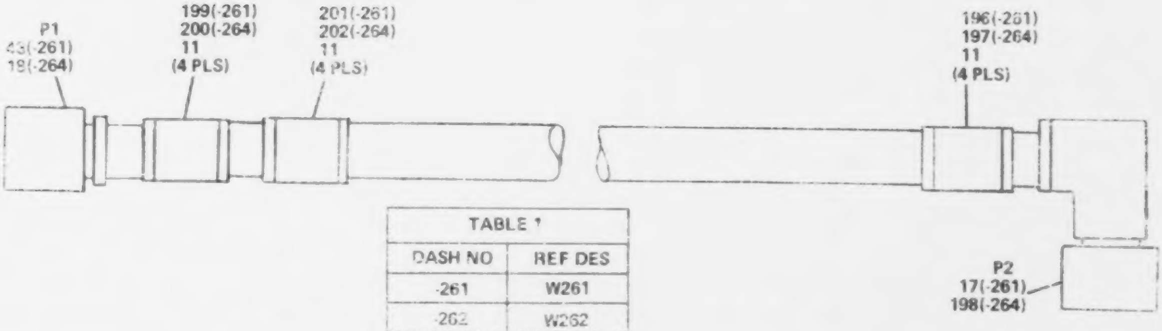


TABLE 1	
DASH NO	REF DES
-261	W261
-262	W262
-264	W264

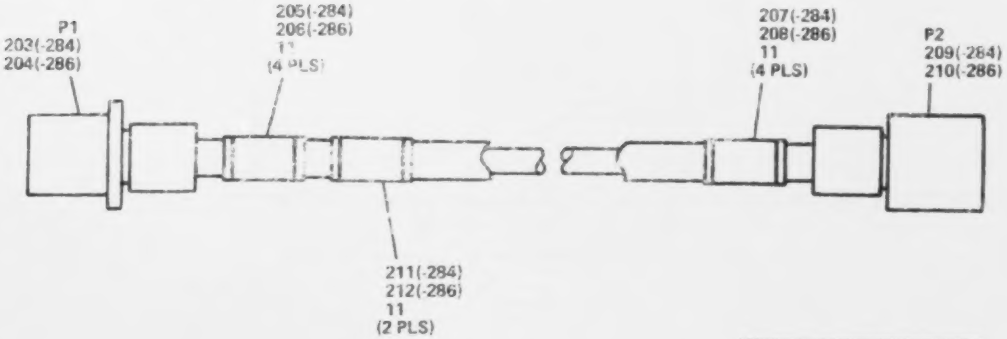


TABLE 1	
DASH NO	REF DES
-284	W284
-286	W286

58429

Figure C-59. Cable Assy., SP 5053205 (Sheet 5 of 5)

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00 CABLE ASSY (57958) 5053205		
C-59	1	PAFZZ	5935-00-755-2901	MS3100R18-1P	96906	CONN,RCPT,ELEC	EA	1
C-59	2	PAFZZ	5935-00-846-7856	MS3100R20-29S	96906	CONN,RCPT,ELEC	EA	1
C-59	3	PAFZZ		MS17343R28C11P	96906	CONN,RCPT,ELEC	EA	1
C-59	4	PAFZZ		MS3473L12-3PY	96906	CONN,RCPT,ELEC	EA	1
C-59	5	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	1
C-59	6	XBFZZ		C5077430-64	57958	TAG,MARKER	EA	1
C-59	7	XBFZZ		C5077430-68	57958	TAG,MARKER	EA	1
C-59	8	XBFZZ		C5077430-122	57958	TAG,MARKER	EA	1
C-59	9	XBFZZ		C5077430-136	57958	TAG,MARKER	EA	1
C-59	10	XBFZZ		C5077430-140	57958	TAG,MARKER	EA	1
C-59	11	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	300
C-59	12	XBFZZ		C5077430-65	57958	TAG,MARKER	EA	1
C-59	13	XBFZZ		C5077430-67	57958	TAG,MARKER	EA	1
C-59	14	XBFZZ		C5077430-121	57958	TAG,MARKER	EA	1
C-59	15	XBFZZ		C5077430-137	57958	TAG,MARKER	EA	1
C-59	16	XBFZZ		C5077430-139	57958	TAG,MARKER	EA	1
C-59	17	PAFZZ	5935-00-496-7835	MS3476L12-10S	96906	CONN,PLUG,ELEC	EA	8
C-59	18	PAFZZ	5935-00-408-4455	MS3476L14-19P	96906	CONN,PLUG,ELEC	EA	7
C-59	19	PAFZZ	5935-00-496-7838	MS3476L14-19S	96906	CONN,PLUG,ELEC	EA	3
C-59	20	PAFZZ		MS3126F8-33S	96906	CONN,PLUG,ELEC	EA	1
C-59	21	XBFZZ		C5077430-66	57958	TAG,MARKER	EA	1
C-59	22	XBFZZ		C5077430-69	57958	TAG,MARKER	EA	1
C-59	23	XBFZZ		C5077430-123	57958	TAG,MARKER	EA	1
C-59	24	XBFZZ		C5077430-138	57958	TAG,MARKER	EA	1
C-59	25	XBFZZ		C5077430-141	57958	TAG,MARKER	EA	1
C-59	26	PAFZZ	5935-00-165-3342	MS3476L16-26P	96906	CONN,PLUG,ELEC	EA	7
C-59	27	PAFZZ	5935-00-728-6769	MS3476L22-55S	96906	CONN,PLUG,ELEC	EA	3
C-59	28	PAFZZ	5935-00-496-7920	MS3476L20-41SW	96906	CONN,PLUG,ELEC	EA	3
C-59	29	PAFZZ	5935-00-827-7492	MS3476L12-8S	96906	CONN,PLUG,ELEC	EA	4
C-59	30	PAFZZ	5935-00-410-1756	MS3476L22-55P	96906	CONN,PLUG,ELEC	EA	2
C-59	31	PAFZZ	5935-00-407-5466	MS3476L20-39P	96906	CONN,PLUG,ELEC	EA	6
C-59	32	PAFZZ	5935-00-410-0198	MS3476L14-18P	96906	CONN,PLUG,ELEC	EA	2
C-59	33	PAFZZ	5935-00-785-7850	MS3476L18-32P	96906	CONN,PLUG,ELEC	EA	3
C-58	34	PAFZZ		MS3476L14-18S	96906	CONN,PLUG,ELEC	EA	1
C-59	35	PAFZZ	5935-00-518-3576	MS3476L18-32S	96906	CONN,PLUG,ELEC	EA	3
C-59	36	PAFZZ	5935-00-009-3157	MS3476L20-41S	96906	CONN,PLUG,ELEC	EA	7
C-59	38	PAFZZ	5935-00-760-0772	MS3476L20-41P	96906	CONN,PLUG,ELEC	EA	2
C-59	39	PAFZZ	5935-00-468-2561	MS3476L12-10P	96906	CONN,PLUG,ELEC	EA	4
C-59	40	PAFZZ	5935-00-470-8838	MS3476L12-10SX	96906	CONN,PLUG,ELEC	EA	2
C-59	41	PAFZZ	5935-00-553-9424	[illegible]	96906	CONN,PLUG,ELEC	EA	2
C-59	42	PAFZZ	5935-01-089-6681	[illegible]	96906	CONN,PLUG,ELEC	EA	3
C-59	43	PAFZZ		MS3116E8-3P	96906	CONN,PLUG,ELEC	EA	1
C-59	44	PAFZZ	5935-00-172-1008	MS3476L16-26S	96906	CONN,PLUG,ELEC	EA	2
C-59	45	XBFZZ		C5077430-1	57958	TAG,MARKER	EA	1
C-59	46	XBFZZ		C5077430-4	57958	TAG,MARKER	EA	1
C-59	47	XBFZZ		C5077430-7	57958	TAG,MARKER	EA	1
C-59	48	XBFZZ		C5077430-10	57958	TAG,MARKER	EA	1
C-59	49	XBFZZ		C5077430-13	57958	TAG,MARKER	EA	1
C-59	50	XBFZZ		C5077430-16	57958	TAG,MARKER	EA	1
C-59	51	XBFZZ		C5077430-19	57958	TAG,MARKER	EA	1
C-59	52	XBFZZ		C5077430-22	57958	TAG,MARKER	EA	1
C-59	53	XBFZZ		C5077430-28	57958	TAG,MARKER	EA	1
C-59	54	XBFZZ		C5077430-31	57958	TAG,MARKER	EA	1
C-59	55	XBFZZ		C5077430-34	57958	TAG,MARKER	EA	1

SECTION II REPAIR PARTS LIST

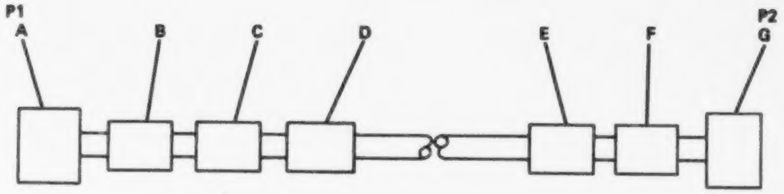
(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
C-59	56	XBFZZ		C5077430-37	57958	TAG,MARKER	EA	1
C-59	57	XBFZZ		C5077430-40	57958	TAG,MARKER	EA	1
C-59	58	XBFZZ		C5077430-43	57958	TAG,MARKER	EA	1
C-59	59	XBFZZ		C5077430-46	57958	TAG,MARKER	EA	1
C-59	60	XBFZZ		C5077430-49	57958	TAG,MARKER	EA	1
C-59	61	XBFZZ		C5077430-52	57958	TAG,MARKER	EA	1
C-59	62	XBFZZ		C5077430-55	57958	TAG,MARKER	EA	1
C-59	63	XBFZZ		C5077430-58	57958	TAG,MARKER	EA	1
C-59	64	XBFZZ		C5077430-61	57958	TAG,MARKER	EA	1
C-59	65	XBFZZ		C5077430-70	57958	TAG,MARKER	EA	1
C-59	66	XBFZZ		C5077430-73	57958	TAG,MARKER	EA	1
C-59	67	XBFZZ		C5077430-76	57958	TAG,MARKER	EA	1
C-59	68	XBFZZ		C5077430-79	57958	TAG,MARKER	EA	1
C-59	69	XBFZZ		C5077430-82	57958	TAG,MARKER	EA	1
C-59	70	XBFZZ		C5077430-85	57958	TAG,MARKER	EA	1
C-59	71	XBFZZ		C5077430-88	57958	TAG,MARKER	EA	1
C-59	72	XBFZZ		C5077430-91	57958	TAG,MARKER	EA	1
C-59	73	XBFZZ		C5077430-97	57958	TAG,MARKER	EA	1
C-59	74	XBFZZ		C5077430-100	57958	TAG,MARKER	EA	1
C-59	75	XBFZZ		C5077430-103	57958	TAG,MARKER	EA	1
C-59	76	XBFZZ		C5077430-106	57958	TAG,MARKER	EA	1
C-59	77	XBFZZ		C5077430-261	57958	TAG,MARKER	EA	1
C-59	78	XBFZZ		C5077430-112	57958	TAG,MARKER	EA	1
C-59	79	XBFZZ		C5077430-115	57958	TAG,MARKER	EA	1
C-59	80	XBFZZ		C5077430-118	57958	TAG,MARKER	EA	1
C-59	81	XBFZZ		C5077430-142	57958	TAG,MARKER	EA	1
C-59	82	XBFZZ		C5077430-3	57958	TAG,MARKER	EA	1
C-59	83	XBFZZ		C5077430-6	57958	TAG,MARKER	EA	1
C-59	84	XBFZZ		C5077430-9	57958	TAG,MARKER	EA	1
C-59	85	XBFZZ		C5077430-12	57958	TAG,MARKER	EA	1
C-59	86	XBFZZ		C5077430-15	57958	TAG,MARKER	EA	1
C-59	87	XBFZZ		C5077430-18	57958	TAG,MARKER	EA	1
C-59	88	XBFZZ		C5077430-21	57958	TAG,MARKER	EA	1
C-59	89	XBFZZ		C5077430-24	57958	TAG,MARKER	EA	1
C-59	90	XBFZZ		C5077430-30	57958	TAG,MARKER	EA	1
C-59	91	XBFZZ		C5077430-33	57958	TAG,MARKER	EA	1
C-59	92	XBFZZ		C5077430-36	57958	TAG,MARKER	EA	1
C-59	93	XBFZZ		C5077430-39	57958	TAG,MARKER	EA	1
C-59	94	XBFZZ		C5077430-42	57958	TAG,MARKER	EA	1
C-59	95	XBFZZ		C5077430-45	57958	TAG,MARKER	EA	1
C-59	96	XBFZZ		C5077430-48	57958	TAG,MARKER	EA	1
C-59	97	XBFZZ		C5077430-51	57958	TAG,MARKER	EA	1
C-59	98	XBFZZ		C5077430-54	57958	TAG,MARKER	EA	1
C-59	99	XBFZZ		C5077430-57	57958	TAG,MARKER	EA	1
C-59	100	XBFZZ		C5077430-60	57958	TAG,MARKER	EA	1
C-59	101	XBFZZ		C5077430-63	57958	TAG,MARKER	EA	1
C-59	102	XBFZZ		C5077430-72	57958	TAG,MARKER	EA	1
C-59	103	XBFZZ		C5077430-75	57958	TAG,MARKER	EA	1
C-59	104	XBFZZ		C5077430-78	57958	TAG,MARKER	EA	1
C-59	105	XBFZZ		C5077430-81	57958	TAG,MARKER	EA	1
C-59	106	XBFZZ		C5077430-84	57958	TAG,MARKER	EA	1
C-59	107	XBFZZ		C5077430-87	57958	TAG,MARKER	EA	1
C-59	108	XBFZZ		C5077430-90	57958	TAG,MARKER	EA	1
C-59	109	XBFZZ		C5077430-93	57958	TAG,MARKER	EA	1
C-59	110	XBFZZ		C5077430-99	57958	TAG,MARKER	EA	1
C-59	111	XBFZZ		C5077430-102	57958	TAG,MARKER	EA	1

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
C-59	112	XBFZZ		C5077430-105	57958	TAG,MARKER	EA	1
C-59	113	XBFZZ		C5077430-108	57958	TAG,MARKER	EA	1
C-59	114	XBFZZ		C5077430-263	57958	TAG,MARKER	EA	1
C-59	115	XBFZZ		C5077430-114	57958	TAG,MARKER	EA	1
C-59	116	XBFZZ		C5077430-117	57958	TAG,MARKER	EA	1
C-59	117	XBFZZ		C5077430-120	57958	TAG,MARKER	EA	1
C-59	118	XBFZZ		C5077430-144	57958	TAG,MARKER	EA	1
C-59	119	XBFZZ		C5077430-2	57958	TAG,MARKER	EA	1
C-59	120	XBFZZ		C5077430-5	57958	TAG,MARKER	EA	1
C-59	121	XBFZZ		C5077430-8	57958	TAG,MARKER	EA	1
C-59	122	XBFZZ		C5077430-11	57958	TAG,MARKER	EA	1
C-59	123	XBFZZ		C5077430-14	57958	TAG,MARKER	EA	1
C-59	124	XBFZZ		C5077430-17	57958	TAG,MARKER	EA	1
C-59	125	XBFZZ		C5077430-20	57958	TAG,MARKER	EA	1
C-59	126	XBFZZ		C5077430-23	57958	TAG,MARKER	EA	1
C-59	127	XBFZZ		C5077430-29	57958	TAG,MARKER	EA	1
C-59	128	XBFZZ		C5077430-32	57958	TAG,MARKER	EA	1
C-59	129	XBFZZ		C5077430-35	57958	TAG,MARKER	EA	1
C-59	130	XBFZZ		C5077430-38	57958	TAG,MARKER	EA	1
C-59	131	XBFZZ		C5077430-41	57958	TAG,MARKER	EA	1
C-59	132	XBFZZ		C5077430-44	57958	TAG,MARKER	EA	1
C-59	133	XBFZZ		C5077430-47	57958	TAG,MARKER	EA	1
C-59	134	XBFZZ		C5077430-50	57958	TAG,MARKER	EA	1
C-59	135	XBFZZ		C5077430-53	57958	TAG,MARKER	EA	1
C-59	136	XBFZZ		C5077430-56	57958	TAG,MARKER	EA	1
C-59	137	XBFZZ		C5077430-59	57958	TAG,MARKER	EA	1
C-59	138	XBFZZ		C5077430-62	57958	TAG,MARKER	EA	1
C-59	139	XBFZZ		C5077430-71	57958	TAG,MARKER	EA	1
C-59	140	XBFZZ		C5077430-74	57958	TAG,MARKER	EA	1
C-59	141	XBFZZ		C5077430-77	57958	TAG,MARKER	EA	1
C-59	142	XBFZZ		C5077430-80	57958	TAG,MARKER	EA	1
C-59	143	XBFZZ		C5077430-83	57958	TAG,MARKER	EA	1
C-59	144	XBFZZ		C5077430-86	57958	TAG,MARKER	EA	1
C-59	145	XBFZZ		C5077430-89	57958	TAG,MARKER	EA	1
C-59	146	XBFZZ		C5077430-92	57958	TAG,MARKER	EA	1
C-59	147	XBFZZ		C5077430-98	57958	TAG,MARKER	EA	1
C-59	148	XBFZZ		C5077430-101	57958	TAG,MARKER	EA	1
C-59	149	XBFZZ		C5077430-104	57958	TAG,MARKER	EA	1
C-59	150	XBFZZ		C5077430-107	57958	TAG,MARKER	EA	1
C-59	151	XBFZZ		C5077430-262	57958	TAG,MARKER	EA	1
C-59	152	XBFZZ		C5077430-113	57958	TAG,MARKER	EA	1
C-59	153	XBFZZ		C5077430-116	57958	TAG,MARKER	EA	1
C-59	154	XBFZZ		C5077430-119	57958	TAG,MARKER	EA	1
C-59	155	XBFZZ		C5077430-143	57958	TAG,MARKER	EA	1
C-59	156	PAFZZ	5935-00-782-7106	MS3476L12-10SW	96906	CONN,PLUG,ELEC	EA	1
C-59	157	PAFZZ	5935-01-070-8411	MS3476L12-10SZ	96906	CONN,PLUG,ELEC	EA	1
C-59	158	PAFZZ	5935-00-247-3108	M81511-06EB01P1	81349	CONN,PLUG,ELEC	EA	1
C-59	159	PAFZZ	5935-00-930-9419	MS3476L10-6SW	96906	CONN,PLUG,ELEC	EA	1
C-59	160	PAFZZ	5935-00-425-9881	MS3476L10-6S	96906	CONN,PLUG,ELEC	EA	4
C-59	161	PAFZZ		U316U	80058	CONN,PLUG,ELEC	EA	1
C-59	162	PAFZZ	5935-00-838-3860	MS3100R18-11P	96906	CONN,RCPT,ELEC	EA	1
C-59	163	XBFZZ		C5077430-109	57958	TAG,MARKER	EA	1
C-59	164	XBFZZ		C5077430-110	57958	TAG,MARKER	EA	1
C-59	165	PAFZZ	5935-00-921-3399	MW10FMA17	81349	CONN,PLUG,ELEC	EA	1
C-59	166	XBFZZ		C5077430-111	57958	TAG,MARKER	EA	1
C-59	167	XBFZZ		C5077430-134	57958	TAG,MARKER	EA	1

SECTION II REPAIR PARTS LIST

	(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
	C-59	168	XBFZZ		C5077430-135	57958	TAG,MARKER	EA	1
	C-59	169	XBFZZ		C5077430-133	57958	TAG,MARKER	EA	1
	C-59	170	PAFZ7	5935-01-036-7422	MS3476L14-19PX	96906	CONN,PLUG,ELEC	EA	1
	C-59	171	PAFZZ	5940-00-041-3646	5054388-2	57958	FERRULE,RF CBL	EA	4
	C-59	173	PAFZZ	5940-01-010-2898	MS25036-149	96906	TERMINAL,LUG	EA	1
	C-59	174	PAFZZ	5935-00-224-5989	MS3106F20-29P	96906	CONN,PLUG,ELEC	EA	1
	C-59	175	PAFZZ	5935-01-097-4672	MS90556C32412PY	96906	CONN,PLUG,ELEC	EA	1
	C-59	176	XBFZZ		C5077430-145	57958	TAG,MARKER	EA	1
	C-59	177	XBFZZ		C5077430-149	57958	TAG,MARKER	EA	1
	C-59	178	XBFZZ		C5077430-147	57958	TAG,MARKER	EA	1
	C-59	179	XA		6/4 TYPE G 90°C 2000V P122 M5HA	57958	CABLE,PWR,ELEC	FT	1
	C-59	180	XBFZZ		C5077430-146	57958	TAG,MARKER	EA	1
	C-59	181	XBFZZ		C5077430-150	57958	TAG,MARKER	EA	1
	C-59	182	PAFZZ	5935-00-417-8737	MS3106F20-27S	96906	CONN,PLUG,ELEC	EA	1
	C-59	183	PAFZZ	5935-01-096-6201	MS90557C32412SY	96906	CONN,PLUG,ELEC	EA	1
	C-59	184	PAFZZ	5935-00-885-3852	MS25042-20D	96906	COVER,ELEC CONN	EA	2
	C-59	185	PAFZZ		5054432-4	57958	ADPTR,CLP-CONN	EA	2
	C-59	186	PAFZZ	5935-00-231-3180	MS3106F10SL3S	96906	CONN,PLUG,ELEC	EA	1
	C-59	187	XBFZZ		C5077430-25	57958	TAG,MARKER	EA	1
	C-59	188	XBFZZ		C5077430-26	57958	TAG,MARKER	EA	1
	C-59	189	XBFZZ		C5077430-27	57958	TAG,MARKER	EA	1
	C-59	190	XBFZZ		C5077430-267	57958	TAG,MARKER	EA	1
	C-59	191	XBFZZ		C5077430-269	57958	TAG,MARKER	EA	1
	C-59	192	XBFZZ		C5077430-268	57958	TAG,MARKER	EA	1
	C-59	193	XBFZZ		C5077430-127	57958	TAG,MARKER	EA	1
	C-59	194	XBFZZ		C5077430-129	57958	TAG,MARKER	EA	1
	C-59	195	XBFZZ		C5077430-128	57958	TAG,MARKER	EA	1
	C-59	196	XBFZZ		C5077430-124	57958	TAG,MARKER	EA	1
	C-59	197	XBFZZ		C5077430-130	57958	TAG,MARKER	EA	1
	C-59	198	PAFZZ	5935-00-163-3644	MS27473T18B32S	96906	CONN,PLUG,ELEC	EA	1
	C-59	199	XBFZZ		C5077430-125	57958	TAG,MARKER	EA	1
	C-59	200	XBFZZ		C5077430-132	57958	TAG,MARKER	EA	1
	C-59	201	XBFZZ		C5077430-126	57958	TAG,MARKER	EA	1
	C-59	202	PAFZZ	6145-00-972-9782	EC22U0-9STX	81349	CABLE,SP,ELEC	FT	1
	C-59	203	PAFZZ	5935-01-036-6806	MS3474L10-6P	96906	CONN,RCPT,ELEC	EA	1
	C-59	204	PAFZZ	5935-00-763-8241	MS3474L14-5P	96906	CONN,RCPT,ELEC	EA	1
	C-59	205	XBFZZ		C5077430-270	57958	TAG,MARKER	EA	1
	C-59	206	XBFZZ		C5077430-264	57958	TAG,MARKER	EA	1
	C-59	207	XBFZZ		C5077430-271	57958	TAG,MARKER	EA	1
	C-59	208	XBFZZ		C5077430-265	57958	TAG,MARKER	EA	1
	C-59	209	PAFZZ	5935-00-992-2035	U229U	80058	CONN,PLUG,ELEC	EA	1
	C-59	210	PAFZZ	5935-00-410-0194	MS3476L14-5S	96906	CONN,PLUG,ELEC	EA	1
	C-59	211	XBFZZ		C5077430-272	57958	TAG,MARKER	EA	1
	C-59	212	XBFZZ		C5077430-266	57958	TAG,MARKER	EA	1
N	C-59	213	PAFZZ	5935-00-114-8708	MS90564-4C	96906	COVER, ELEC CONN	EA	1
N	C-59	214	PAFZZ	5935-00-114-7525	MS90563-4C	96906	COVER, ELEC CONN	EA	1
N	C-59	215	PAFZZ		MS3437A13N	96906	ADPTR,CLP-CONN	EA	1
N	C-59	216	PAFZZ		MS3417-10N	96906	CLAMP,CBL,CONN	FA	1



CABLE		ITEM NO.						
DASH NO.	REF DES	A	B	C	D	E	F	G
-100	W100	1	5	70	135	199	264	1
-101	W101	1	6	71	136	200	265	1
-103	W103	1	7	72	137	201	266	1
-104	W104	1	8	73	138	202	267	1
-110	W110	1	9	74	139	203	268	1
-111	W111	1	10	75	140	204	269	1
-113	W113	1	11	76	141	205	270	1
-114	W114	1	12	77	142	206	271	1
-120	W120	1	13	78	143	207	272	1
-121	W121	1	14	79	144	208	273	1
-123	W123	1	15	80	145	209	274	1
-124	W124	1	16	81	146	210	275	1
-148	W148	1	17	82	147	211	276	1
-162	W162	1	18	83	148	212	277	1
-163	W163	1	19	84	149	213	278	1
-164	W164	1	20	85	150	214	279	1
-166	W166	1	21	86	151	215	280	1
-167	W167	1	22	87	152	216	281	1
-168	W168	1	23	88	153	217	282	1
-169	W169	1	24	89	154	218	283	1
-174	W174	1	25	90	155	219	284	1
-175	W175	1	26	91	156	220	285	1
-176	W176	1	27	92	157	221	286	1
-178	W178	1	28	93	158	222	287	1
-179	W179	1	29	94	159	223	288	1
-180	W180	1	30	95	160	224	289	1
-181	W181	1	31	96	161	225	290	1
-186	W186	1	32	97	162	226	291	1
-187	W187	1	33	98	163	227	292	1
-188	W188	1	34	99	164	228	293	1
-190	W190	1	35	100	165	229	294	1
-191	W191	1	36	101	166	230	295	1

CABLE		ITEM NO.						
DASH NO.	REF DES	A	B	C	D	E	F	G
-192	W192	1	37	102	167	231	296	1
-193	W193	1	38	103	168	232	297	1
-201	W201	1	39	104	169	233	298	1
-202	W202	1	40	105	170	234	299	1
-203	W203	1	41	106	171	235	300	1
-204	W204	1	42	107	172	236	301	1
-206	W206	1	43	108	173	237	302	1
-207	W207	1	44	109	174	238	303	1
-208	W208	1	45	110	175	239	304	1
-209	W209	1	46	111	176	240	305	1
-210	W210	1	47	112	177	241	306	1
-211	W211	1	48	113	178	242	307	1
-212	W212	1	49	114	179	243	308	1
-213	W213	1	50	115	180	244	309	1
-217	W217	1	51	116	181	245	310	1
-218	W218	1	52	117	182	246	311	1
-219	W219	1	53	118	183	247	312	1
-220	W220	1	54	119	184	248	313	1
-235	W235	1	55	120	185	249	314	1
-246	W246	2	56	121		250		3
-257	W257	3	57	122	186	251	315	1
-258	W258	3	58	123	187	252	316	3
-259	W259	3	59	124	188	253	317	3
-260	W260	3	60	125	189	254	318	3
-265	W265	1	61	126	190	255	319	1
-266	W266	1	62	127	191	256	320	1
-267	W267	4	63	128	192	257	321	1
-268	W268	1	64	129	193	258	322	1
-269	W269	1	65	130	194	259	323	1
-278	W278	1	66	131	195	260	324	3
-279	W279	1	67	132	196	261	325	3
-280	W280	3	68	133	197	262	326	1
-281	W281	3	69	134	198	263	327	1

88431

Figure C-60. Cable Assy., RF 5053206

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 00 CABLE ASSY,RF (57958) 5053206		
C-60	1	PAFZZ	5935-01-043-5841	M39012-26-0101	81349	CONN,PLUG,ELEC	EA	116
C-60	2	PAFZZ	5935-00-106-3925	5054451-1	57958	CONN,PLUG,ELEC	EA	1
C-60	3	PAFZZ	5935-00-928-3127	M39012-01-0005	81349	CONN,PLUG,ELEC	EA	12
C-60	4	PAFZZ	5935-00-995-1665	UG1412U	80058	CONN,PLUG,ELEC	EA	1
C-60	5	XBFZZ		C5077414-1	57958	BAND,MARKER	EA	1
C-60	6	XBFZZ		C5077414-6	57958	BAND,MARKER	EA	1
C-60	7	XBFZZ		C5077414-16	57958	BAND,MARKER	EA	1
C-60	8	XBFZZ		C5077414-21	57958	BAND,MARKER	EA	1
C-60	9	XBFZZ		C5077414-26	57958	BAND,MARKER	EA	1
C-60	10	XBFZZ		C5077414-31	57958	BAND,MARKER	EA	1
C-60	11	XBFZZ		C5077414-41	57958	BAND,MARKER	EA	1
C-60	12	XBFZZ		C5077414-46	57958	BAND,MARKER	EA	1
C-60	13	XBFZZ		C5077414-51	57958	BAND,MARKER	EA	1
C-60	14	XBFZZ		C5077414-56	57958	BAND,MARKER	EA	1
C-60	15	XBFZZ		C5077414-61	57958	BAND,MARKER	EA	1
C-60	16	XBFZZ		C5077414-66	57958	BAND,MARKER	EA	1
C-60	17	XBFZZ		C5077414-71	57958	BAND,MARKER	EA	1
C-60	18	XBFZZ		C5077414-76	57958	BAND,MARKER	EA	1
C-60	19	XBFZZ		C5077414-81	57958	BAND,MARKER	EA	1
C-60	20	XBFZZ		C5077414-86	57958	BAND,MARKER	EA	1
C-60	21	XBFZZ		C5077414-91	57958	BAND,MARKER	EA	1
C-60	22	XBFZZ		C5077414-96	57958	BAND,MARKER	EA	1
C-60	23	XBFZZ		C5077414-101	57958	BAND,MARKER	EA	1
C-60	24	XBFZZ		C5077414-106	57958	BAND,MARKER	EA	1
C-60	25	XBFZZ		C5077414-111	57958	BAND,MARKER	EA	1
C-60	26	XBFZZ		C5077414-116	57958	BAND,MARKER	EA	1
C-60	27	XBFZZ		C5077414-121	57958	BAND,MARKER	EA	1
C-60	28	XBFZZ		C5077414-126	57958	BAND,MARKER	EA	1
C-60	29	XBFZZ		C5077414-131	57958	BAND,MARKER	EA	1
C-60	30	XBFZZ		C5077414-136	57958	BAND,MARKER	EA	1
C-60	31	XBFZZ		C5077414-141	57958	BAND,MARKER	EA	1
C-60	32	XBFZZ		C5077414-146	57958	BAND,MARKER	EA	1
C-60	33	XBFZZ		C5077414-151	57958	BAND,MARKER	EA	1
C-60	34	XBFZZ		C5077414-156	57958	BAND,MARKER	EA	1
C-60	35	XBFZZ		C5077414-161	57958	BAND,MARKER	EA	1
C-60	36	XBFZZ		C5077414-166	57958	BAND,MARKER	EA	1
C-60	37	XBFZZ		C5077414-171	57958	BAND,MARKER	EA	1
C-60	38	XBFZZ		C5077414-176	57958	BAND,MARKER	EA	1
C-60	39	XBFZZ		C5077414-181	57958	BAND,MARKER	EA	1
C-60	40	XBFZZ		C5077414-186	57958	BAND,MARKER	EA	1
C-60	41	XBFZZ		C5077414-191	57958	BAND,MARKER	EA	1
C-60	42	XBFZZ		C5077414-196	57958	BAND,MARKER	EA	1
C-60	43	XBFZZ		C5077414-201	57958	BAND,MARKER	EA	1
C-60	44	XBFZZ		C5077414-206	57958	BAND,MARKER	EA	1
C-60	45	XBFZZ		C5077414-211	57958	BAND,MARKER	EA	1
C-60	46	XBFZZ		C5077414-216	57958	BAND,MARKER	EA	1
C-60	47	XBFZZ		C5077414-221	57958	BAND,MARKER	EA	1
C-60	48	XBFZZ		C5077414-226	57958	BAND,MARKER	EA	1
C-60	49	XBFZZ		C5077414-231	57958	BAND,MARKER	EA	1
C-60	50	XBFZZ		C5077414-236	57958	BAND,MARKER	EA	1
C-60	51	XBFZZ		C5077414-241	57958	BAND,MARKER	EA	1
C-60	52	XBFZZ		C5077414-246	57958	BAND,MARKER	EA	1
C-60	53	XBFZZ		C5077414-251	57958	BAND,MARKER	EA	1
C-60	54	XBFZZ		C5077414-256	57958	BAND,MARKER	EA	1
C-60	55	XBFZZ		C5077414-261	57958	BAND,MARKER	EA	1

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	USABLE ON CODE	U/M	QTY INC IN UNIT
C-60	56	XBFZZ		C5077428-1	57958	BAND,MARKER	EA	1
C-60	57	XBFZZ		C5077414-266	57958	BAND,MARKER	EA	1
C-60	58	XBFZZ		C5077414-271	57958	BAND,MARKER	EA	1
C-60	59	XBFZZ		C5077414-281	57958	BAND,MARKER	EA	1
C-60	60	XBFZZ		C5077414-276	57958	BAND,MARKER	EA	1
C-60	61	XBFZZ		C5077414-286	57958	BAND,MARKER	EA	1
C-60	62	XBFZZ		C5077414-291	57958	BAND,MARKER	EA	1
C-60	63	XBFZZ		C5077414-296	57958	BAND,MARKER	EA	1
C-60	64	XBFZZ		C5077414-301	57958	BAND,MARKER	EA	1
C-60	65	XBFZZ		C5077414-306	57958	BAND,MARKER	EA	1
C-60	66	XBFZZ		C5077414-311	57958	BAND,MARKER	EA	1
C-60	67	XBFZZ		C5077414-316	57958	BAND,MARKER	EA	1
C-60	68	XBFZZ		C5077414-321	57958	BAND,MARKER	EA	1
C-60	69	XBFZZ		C5077414-326	57958	BAND,MARKER	EA	1
C-60	70	XBFZZ		C5077414-3	57958	BAND,MARKER	EA	1
C-60	71	XBFZZ		C5077414-8	57958	BAND,MARKER	EA	1
C-60	72	XBFZZ		C5077414-18	57958	BAND,MARKER	EA	1
C-60	73	XBFZZ		C5077414-23	57958	BAND,MARKER	EA	1
C-60	74	XBFZZ		C5077414-28	57958	BAND,MARKER	EA	1
C-60	75	XBFZZ		C5077414-33	57958	BAND,MARKER	EA	1
C-60	76	XBFZZ		C5077414-43	57958	BAND,MARKER	EA	1
C-60	77	XBFZZ		C5077414-48	57958	BAND,MARKER	EA	1
C-60	78	XBFZZ		C5077414-53	57958	BAND,MARKER	EA	1
C-60	79	XBFZZ		C5077414-58	57958	BAND,MARKER	EA	1
C-60	80	XBFZZ		C5077414-63	57958	BAND,MARKER	EA	1
C-60	81	XBFZZ		C5077414-68	57958	BAND,MARKER	EA	1
C-60	82	XBFZZ		C5077414-73	57958	BAND,MARKER	EA	1
C-60	83	XBFZZ		C5077414-78	57958	BAND,MARKER	EA	1
C-60	84	XBFZZ		C5077414-83	57958	BAND,MARKER	EA	1
C-60	85	XBFZZ		C5077414-88	57958	BAND,MARKER	EA	1
C-60	86	XBFZZ		C5077414-93	57958	BAND,MARKER	EA	1
C-60	87	XBFZZ		C5077414-98	57958	BAND,MARKER	EA	1
C-60	88	XBFZZ		C5077414-103	57958	BAND,MARKER	EA	1
C-60	89	XBFZZ		C5077414-108	57958	BAND,MARKER	EA	1
C-60	90	XBFZZ		C5077414-113	57958	BAND,MARKER	EA	1
C-60	91	XBFZZ		C5077414-118	57958	BAND,MARKER	EA	1
C-60	92	XBFZZ		C5077414-123	57958	BAND,MARKER	EA	1
C-60	93	XBFZZ		C5077414-128	57958	BAND,MARKER	EA	1
C-60	94	XBFZZ		C5077414-133	57958	BAND,MARKER	EA	1
C-60	95	XBFZZ		C5077414-138	57958	BAND,MARKER	EA	1
C-60	96	XBFZZ		C5077414-143	57958	BAND,MARKER	EA	1
C-60	97	XBFZZ		C5077414-148	57958	BAND,MARKER	EA	1
C-60	98	XBFZZ		C5077414-153	57958	BAND,MARKER	EA	1
C-60	99	XBFZZ		C5077414-158	57958	BAND,MARKER	EA	1
C-60	100	XBFZZ		C5077414-163	57958	BAND,MARKER	EA	1
C-60	101	XBFZZ		C5077414-168	57958	BAND,MARKER	EA	1
C-60	102	XBFZZ		C5077414-173	57958	BAND,MARKER	EA	1
C-60	103	XBFZZ		C5077414-178	57958	BAND,MARKER	EA	1
C-60	104	XBFZZ		C5077414-183	57958	BAND,MARKER	EA	1
C-60	105	XBFZZ		C5077414-188	57958	BAND,MARKER	EA	1
C-60	106	XBFZZ		C5077414-193	57958	BAND,MARKER	EA	1
C-60	107	XBFZZ		C5077414-198	57958	BAND,MARKER	EA	1
C-60	108	XBFZZ		C5077414-203	57958	BAND,MARKER	EA	1
C-60	109	XBFZZ		C5077414-208	57958	BAND,MARKER	EA	1
C-60	110	XBFZZ		C5077414-213	57958	BAND,MARKER	EA	1
C-60	111	XBFZZ		C5077414-218	57958	BAND,MARKER	EA	1

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
C-60	112	XBFZZ		C5077414-223	57958	BAND,MARKER	EA	1
C-60	113	XBFZZ		C5077414-228	57958	BAND,MARKER	EA	1
C-60	114	XBFZZ		C5077414-233	57958	BAND,MARKER	EA	1
C-60	115	XBFZZ		C5077414-238	57958	BAND,MARKER	EA	1
C-60	116	XBFZZ		C5077414-243	57958	BAND,MARKER	EA	1
C-60	117	XBFZZ		C5077414-248	57958	BAND,MARKER	EA	1
C-60	118	XBFZZ		C5077414-253	57958	BAND,MARKER	EA	1
C-60	119	XBFZZ		C5077414-258	57958	BAND,MARKER	EA	1
C-60	120	XBFZZ		C5077414-263	57958	BAND,MARKER	EA	1
C-60	121	XBFZZ		C5077428-3	57958	BAND,MARKER	EA	1
C-60	122	XBFZZ		C5077414-268	57958	BAND,MARKER	EA	1
C-60	123	XBFZZ		C5077414-273	57958	BAND,MARKER	EA	1
C-60	124	XBFZZ		C5077414-278	57958	BAND,MARKER	EA	1
C-60	125	XBFZZ		C5077414-283	57958	BAND,MARKER	EA	1
C-60	126	XBFZZ		C5077414-288	57958	BAND,MARKER	EA	1
C-60	127	XBFZZ		C5077414-293	57958	BAND,MARKER	EA	1
C-60	128	XBFZZ		C5077414-298	57958	BAND,MARKER	EA	1
C-60	129	XBFZZ		C5077414-303	57958	BAND,MARKER	EA	1
C-60	130	XBFZZ		C5077414-308	57958	BAND,MARKER	EA	1
C-60	131	XBFZZ		C5077414-313	57958	BAND,MARKER	EA	1
C-60	132	XBFZZ		C5077414-318	57958	BAND,MARKER	EA	1
C-60	133	XBFZZ		C5077414-323	57958	BAND,MARKER	EA	1
C-60	134	XBFZZ		C5077414-328	57958	BAND,MARKER	EA	1
C-60	135	XBFZZ		C5077414-5	57958	BAND,MARKER	EA	1
C-60	136	XBFZZ		C5077414-10	57958	BAND,MARKER	EA	1
C-60	137	XBFZZ		C5077414-20	57958	BAND,MARKER	EA	1
C-60	138	XBFZZ		C5077414-25	57958	BAND,MARKER	EA	1
C-60	139	XBFZZ		C5077414-30	57958	BAND,MARKER	EA	1
C-60	140	XBFZZ		C5077414-35	57958	BAND,MARKER	EA	1
C-60	141	XBFZZ		C5077414-45	57958	BAND,MARKER	EA	1
C-60	142	XBFZZ		C5077414-50	57958	BAND,MARKER	EA	1
C-60	143	XBFZZ		C5077414-55	57958	BAND,MARKER	EA	1
C-60	144	XBFZZ		C5077414-60	57958	BAND,MARKER	EA	1
C-60	145	XBFZZ		C5077414-65	57958	BAND,MARKER	EA	1
C-60	146	XBFZZ		C5077414-70	57958	BAND,MARKER	EA	1
C-60	147	XBFZZ		C5077414-75	57958	BAND,MARKER	EA	1
C-60	148	XBFZZ		C5077414-80	57958	BAND,MARKER	EA	1
C-60	149	XBFZZ		C5077414-85	57958	BAND,MARKER	EA	1
C-60	150	XBFZZ		C5077414-90	57958	BAND,MARKER	EA	1
C-60	151	XBFZZ		C5077414-95	57958	BAND,MARKER	EA	1
C-60	152	XBFZZ		C5077414-100	57958	BAND,MARKER	EA	1
C-60	153	XBFZZ		C5077414-105	57958	BAND,MARKER	EA	1
C-60	154	XBFZZ		C5077414-110	57958	BAND,MARKER	EA	1
C-60	155	XBFZZ		C5077414-115	57958	BAND,MARKER	EA	1
C-60	156	XBFZZ		C5077414-120	57958	BAND,MARKER	EA	1
C-60	157	XBFZZ		C5077414-125	57958	BAND,MARKER	EA	1
C-60	158	XBFZZ		C5077414-130	57958	BAND,MARKER	EA	1
C-60	159	XBFZZ		C5077414-135	57958	BAND,MARKER	EA	1
C-60	160	XBFZZ		C5077414-140	57958	BAND,MARKER	EA	1
C-60	161	XBFZZ		C5077414-145	57958	BAND,MARKER	EA	1
C-60	162	XBFZZ		C5077414-150	57958	BAND,MARKER	EA	1
C-60	163	XBFZZ		C5077414-155	57958	BAND,MARKER	EA	1
C-60	164	XBFZZ		C5077414-160	57958	BAND,MARKER	EA	1
C-60	165	XBFZZ		C5077414-165	57958	BAND,MARKER	EA	1
C-60	166	XBFZZ		C5077414-170	57958	BAND,MARKER	EA	1
C-60	167	XBFZZ		C5077414-175	57958	BAND,MARKER	EA	1

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
C-60	168	XBFZZ		C5077414-180	57958	BAND,MARKER	EA	1
C-60	169	XBFZZ		C5077414-185	57958	BAND,MARKER	EA	1
C-60	170	XBFZZ		C5077414-190	57958	BAND,MARKER	EA	1
C-60	171	XBFZZ		C5077414-195	57958	BAND,MARKER	EA	1
C-60	172	XBFZZ		C5077414-200	57958	BAND,MARKER	EA	1
C-60	173	XBFZZ		C5077414-205	57958	BAND,MARKER	EA	1
C-60	174	XBFZZ		C5077414-210	57958	BAND,MARKER	EA	1
C-60	175	XBFZZ		C5077414-215	57958	BAND,MARKER	EA	1
C-60	176	XBFZZ		C5077414-220	57958	BAND,MARKER	EA	1
C-60	177	XBFZZ		C5077414-225	57958	BAND,MARKER	EA	1
C-60	178	XBFZZ		C5077414-230	57958	BAND,MARKER	EA	1
C-60	179	XBFZZ		C5077414-235	57958	BAND,MARKER	EA	1
C-60	180	XBFZZ		C5077414-240	57958	BAND,MARKER	EA	1
C-60	181	XBFZZ		C5077414-245	57958	BAND,MARKER	EA	1
C-60	182	XBFZZ		C5077414-250	57958	BAND,MARKER	EA	1
C-60	183	XBFZZ		C5077414-255	57958	BAND,MARKER	EA	1
C-60	184	XBFZZ		C5077414-260	57958	BAND,MARKER	EA	1
C-60	185	XBFZZ		C5077414-265	57958	BAND,MARKER	EA	1
C-60	186	XBFZZ		C5077414-270	57958	BAND,MARKER	EA	1
C-60	187	XBFZZ		C5077414-275	57958	BAND,MARKER	EA	1
C-60	188	XBFZZ		C5077414-280	57958	BAND,MARKER	EA	1
C-60	189	XBFZZ		C5077414-285	57958	BAND,MARKER	EA	1
C-60	190	XBFZZ		C5077414-290	57958	BAND,MARKER	EA	1
C-60	191	XBFZZ		C5077414-295	57958	BAND,MARKER	EA	1
C-60	192	XBFZZ		C5077414-300	57958	BAND,MARKER	EA	1
C-60	193	XBFZZ		C5077414-305	57958	BAND,MARKER	EA	1
C-60	194	XBFZZ		C5077414-310	57958	BAND,MARKER	EA	1
C-60	195	XBFZZ		C5077414-315	57958	BAND,MARKER	EA	1
C-60	196	XBFZZ		C5077414-320	57958	BAND,MARKER	EA	1
C-60	197	XBFZZ		C5077414-325	57958	BAND,MARKER	EA	1
C-60	198	XBFZZ		C5077414-330	57958	BAND,MARKER	EA	1
C-60	199	XBFZZ		C5077414-4	57958	BAND,MARKER	EA	1
C-60	200	XBFZZ		C5077414-9	57958	BAND,MARKER	EA	1
C-60	201	XBFZZ		C5077414-19	57958	BAND,MARKER	EA	1
C-60	202	XBFZZ		C5077414-24	57958	BAND,MARKER	EA	1
C-60	203	XBFZZ		C5077414-29	57958	BAND,MARKER	EA	1
C-60	204	XBFZZ		C5077414-34	57958	BAND,MARKER	EA	1
C-60	205	XBFZZ		C5077414-44	57958	BAND,MARKER	EA	1
C-60	206	XBFZZ		C5077414-49	57958	BAND,MARKER	EA	1
C-60	207	XBFZZ		C5077414-54	57958	BAND,MARKER	EA	1
C-60	208	XBFZZ		C5077414-59	57958	BAND,MARKER	EA	1
C-60	209	XBFZZ		C5077414-64	57958	BAND,MARKER	EA	1
C-60	210	XBFZZ		C5077414-69	57958	BAND,MARKER	EA	1
C-60	211	XBFZZ		C5077414-74	57958	BAND,MARKER	EA	1
C-60	212	XBFZZ		C5077414-79	57958	BAND,MARKER	EA	1
C-60	213	XBFZZ		C5077414-84	57958	BAND,MARKER	EA	1
C-60	214	XBFZZ		C5077414-89	57958	BAND,MARKER	EA	1
C-60	215	XBFZZ		C5077414-94	57958	BAND,MARKER	EA	1
C-60	216	XBFZZ		C5077414-99	57958	BAND,MARKER	EA	1
C-60	217	XBFZZ		C5077414-104	57958	BAND,MARKER	EA	1
C-60	218	XBFZZ		C5077414-109	57958	BAND,MARKER	EA	1
C-60	219	XBFZZ		C5077414-114	57958	BAND,MARKER	EA	1
C-60	220	XBFZZ		C5077414-119	57958	BAND,MARKER	EA	1
C-60	221	XBFZZ		C5077414-124	57958	BAND,MARKER	EA	1
C-60	222	XBFZZ		C5077414-129	57958	BAND,MARKER	EA	1
C-60	223	XBFZZ		C5077414-134	57958	BAND,MARKER	EA	1

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	USABLE ON CODE	U/M	QTY INC IN UNIT
C-60	224	XBFZZ		C5077414-139	57958	BAND,MARKER	EA	1
C-60	225	XBFZZ		C5077414-144	57958	BAND,MARKER	EA	1
C-60	226	XBFZZ		C5077414-149	57958	BAND,MARKER	EA	1
C-60	227	XBFZZ		C5077414-154	57958	BAND,MARKER	EA	1
C-60	228	XBFZZ		C5077414-159	57958	BAND,MARKER	EA	1
C-60	229	XBFZZ		C5077414-164	57958	BAND,MARKER	EA	1
C-60	230	XBFZZ		C5077414-169	57958	BAND,MARKER	EA	1
C-60	231	XBFZZ		C5077414-174	57958	BAND,MARKER	EA	1
C-60	232	XBFZZ		C5077414-179	57958	BAND,MARKER	EA	1
C-60	233	XBFZZ		C5077414-184	57958	BAND,MARKER	EA	1
C-60	234	XBFZZ		C5077414-189	57958	BAND,MARKER	EA	1
C-60	235	XBFZZ		C5077414-194	57958	BAND,MARKER	EA	1
C-60	236	XBFZZ		C5077414-199	57958	BAND,MARKER	EA	1
C-60	237	XBFZZ		C5077414-204	57958	BAND,MARKER	EA	1
C-60	238	XBFZZ		C5077414-209	57958	BAND,MARKER	EA	1
C-60	239	XBFZZ		C5077414-214	57958	BAND,MARKER	EA	1
C-60	240	XBFZZ		C5077414-219	57958	BAND,MARKER	EA	1
C-60	241	XBFZZ		C5077414-224	57958	BAND,MARKER	EA	1
C-60	242	XBFZZ		C5077414-229	57958	BAND,MARKER	EA	1
C-60	243	XBFZZ		C5077414-234	57958	BAND,MARKER	EA	1
C-60	244	XBFZZ		C5077414-239	57958	BAND,MARKER	EA	1
C-60	245	XBFZZ		C5077414-244	57958	BAND,MARKER	EA	1
C-60	246	XBFZZ		C5077414-249	57958	BAND,MARKER	EA	1
C-60	247	XBFZZ		C5077414-254	57958	BAND,MARKER	EA	1
C-60	248	XBFZZ		C5077414-259	57958	BAND,MARKER	EA	1
C-60	249	XBFZZ		C5077414-264	57958	BAND,MARKER	EA	1
C-60	250	XBFZZ		C5077428-2	57958	BAND,MARKER	EA	1
C-60	251	XBFZZ		C5077414-269	57958	BAND,MARKER	EA	1
C-60	252	XBFZZ		C5077414-274	57958	BAND,MARKER	EA	1
C-60	253	XBFZZ		C5077414-279	57958	BAND,MARKER	EA	1
C-60	254	XBFZZ		C5077414-284	57958	BAND,MARKER	EA	1
C-60	255	XBFZZ		C5077414-289	57958	BAND,MARKER	EA	1
C-60	256	XBFZZ		C5077414-294	57958	BAND,MARKER	EA	1
C-60	257	XBFZZ		C5077414-299	57958	BAND,MARKER	EA	1
C-60	258	XBFZZ		C5077414-304	57958	BAND,MARKER	EA	1
C-60	259	XBFZZ		C5077414-309	57958	BAND,MARKER	EA	1
C-60	260	XBFZZ		C5077414-314	57958	BAND,MARKER	EA	1
C-60	261	XBFZZ		C5077414-319	57958	BAND,MARKER	EA	1
C-60	262	XBFZZ		C5077414-324	57958	BAND,MARKER	EA	1
C-60	263	XBFZZ		C5077414-329	57958	BAND,MARKER	EA	1
C-60	264	XBFZZ		C5077414-2	57958	BAND,MARKER	EA	1
C-60	265	XBFZZ		C5077414-7	57958	BAND,MARKER	EA	1
C-60	266	XBFZZ		C5077414-17	57958	BAND,MARKER	EA	1
C-60	267	XBFZZ		C5077414-22	57958	BAND,MARKER	EA	1
C-60	268	XBFZZ		C5077414-27	57958	BAND,MARKER	EA	1
C-60	269	XBFZZ		C5077414-32	57958	BAND,MARKER	EA	1
C-60	270	XBFZZ		C5077414-42	57958	BAND,MARKER	EA	1
C-60	271	XBFZZ		C5077414-47	57958	BAND,MARKER	EA	1
C-60	272	XBFZZ		C5077414-52	57958	BAND,MARKER	EA	1
C-60	273	XBFZZ		C5077414-57	57958	BAND,MARKER	EA	1
C-60	274	XBFZZ		C5077414-62	57958	BAND,MARKER	EA	1
C-60	275	XBFZZ		C5077414-67	57958	BAND,MARKER	EA	1
C-60	276	XBFZZ		C5077414-72	57958	BAND,MARKER	EA	1
C-60	277	XBFZZ		C5077414-77	57958	BAND,MARKER	EA	1

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
C-60	278	XBFZZ		C5077414-82	57958	BAND,MARKER	EA	1
C-60	279	XBFZZ		C5077414-87	57958	BAND,MARKER	EA	1
C-60	280	XBFZZ		C5077414-92	57958	BAND,MARKER	EA	1
C-60	281	XBFZZ		C5077414-97	57958	BAND,MARKER	EA	1
C-60	282	XBFZZ		C5077414-102	57958	BAND,MARKER	EA	1
C-60	283	XBFZZ		C5077414-107	57958	BAND,MARKER	EA	1
C-60	284	XBFZZ		C5077414-112	57958	BAND,MARKER	EA	1
C-60	285	XBFZZ		C5077414-117	57958	BAND,MARKER	EA	1
C-60	286	XBFZZ		C5077414-122	57958	BAND,MARKER	EA	1
C-60	287	XBFZZ		C5077414-127	57958	BAND,MARKER	EA	1
C-60	288	XBFZZ		C5077414-132	57958	BAND,MARKER	EA	1
C-60	289	XBFZZ		C5077414-137	57958	BAND,MARKER	EA	1
C-60	290	XBFZZ		C5077414-142	57958	BAND,MARKER	EA	1
C-60	291	XBFZZ		C5077414-147	57958	BAND,MARKER	EA	1
C-60	292	XBFZZ		C5077414-152	57958	BAND,MARKER	EA	1
C-60	293	XBFZZ		C5077414-157	57958	BAND,MARKER	EA	1
C-60	294	XBFZZ		C5077414-162	57958	BAND,MARKER	EA	1
C-60	295	XBFZZ		C5077414-167	57958	BAND,MARKER	EA	1
C-60	296	XBFZZ		C5077414-172	57958	BAND,MARKER	EA	1
C-60	297	XBFZZ		C5077414-177	57958	BAND,MARKER	EA	1
C-60	298	XBFZZ		C5077414-182	57958	BAND,MARKER	EA	1
C-60	299	XBFZZ		C5077414-187	57958	BAND,MARKER	EA	1
C-60	300	XBFZZ		C5077414-192	57958	BAND,MARKER	EA	1
C-60	301	XBFZZ		C5077414-197	57958	BAND,MARKER	EA	1
C-60	302	XBFZZ		C5077414-202	57958	BAND,MARKER	EA	1
C-60	303	XBFZZ		C5077414-207	57958	BAND,MARKER	EA	1
C-60	304	XBFZZ		C5077414-212	57958	BAND,MARKER	EA	1
C-60	305	XBFZZ		C5077414-217	57958	BAND,MARKER	EA	1
C-60	306	XBFZZ		C5077414-222	57958	BAND,MARKER	EA	1
C-60	307	XBFZZ		C5077414-227	57958	BAND,MARKER	EA	1
C-60	308	XBFZZ		C5077414-232	57958	BAND,MARKER	EA	1
C-60	309	XBFZZ		C5077414-237	57958	BAND,MARKER	EA	1
C-60	310	XBFZZ		C5077414-242	57958	BAND,MARKER	EA	1
C-60	311	XBFZZ		C5077414-247	57958	BAND,MARKER	EA	1
C-60	312	XBFZZ		C5077414-252	57958	BAND,MARKER	EA	1
C-60	313	XBFZZ		C5077414-257	57958	BAND,MARKER	EA	1
C-60	314	XBFZZ		C5077414-262	57958	BAND,MARKER	EA	1
C-60	315	XBFZZ		C5077414-267	57958	BAND,MARKER	EA	1
C-60	316	XBFZZ		C5077414-272	57958	BAND,MARKER	EA	1
C-60	317	XBFZZ		C5077414-277	57958	BAND,MARKER	EA	1
C-60	318	XBFZZ		C5077414-282	57958	BAND,MARKER	EA	1
C-60	319	XBFZZ		C5077414-287	57958	BAND,MARKER	EA	1
C-60	320	XBFZZ		C5077414-292	57958	BAND,MARKER	EA	1
C-60	321	XBFZZ		C5077414-297	57958	BAND,MARKER	EA	1
C-60	322	XBFZZ		C5077414-302	57958	BAND,MARKER	EA	1
C-60	323	XBFZZ		C5077414-307	57958	BAND,MARKER	EA	1
C-60	324	XBFZZ		C5077414-312	57958	BAND,MARKER	EA	1
C-60	325	XBFZZ		C5077414-317	57958	BAND,MARKER	EA	1
C-60	326	XBFZZ		C5077414-322	57958	BAND,MARKER	EA	1
C-60	327	XBFZZ		C5077414-327	57958	BAND,MARKER	EA	1

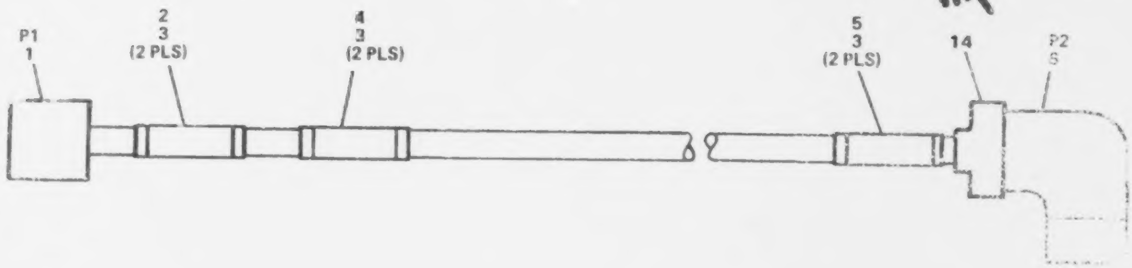


TABLE 1	
DASH NO	REF DES
-228	W228
-406	W406

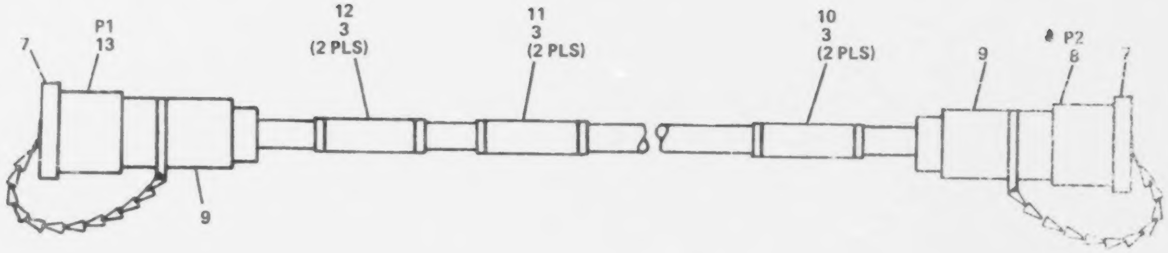


Figure C-61. Cable Assy., SP 5053210

SECTION II REPAIR PARTS LIST

(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
						GROUP 00 CABLE ASSY,SP (57958) 5053210		
C-61	1	PAFZZ		MS3101R28-9S	96906	CONN,PLUG,ELEC	EA	1
C-61	2	XBFZZ		C5077430-169	57958	TAG,MARKER	EA	1
C-61	3	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	28
C-61	4	XBFZZ		C5077430-171	57958	TAG,MARKER	EA	1
C-61	5	XBFZZ		C5077430-170	57958	TAG,MARKER	EA	1
C-61	6	PAFZZ	5935-00-879-2763	MS3108R28-9P	96906	CONN,PLUG,ELEC	EA	1
C-61	7	PAFZZ	5935-00-161-3096	MS25042-18D	96906	COVER,ELEC CONN	EA	2
C-61	8	PAFZZ	5935-00-452-1170	MS3106F18-11P	96906	CONN,PLUG,ELEC	EA	1
C-61	9	PAFZZ		5054432-3	57958	ADPTR,CLP-CONN	EA	2
C-61	10	XBFZZ		C5077430-173	57958	TAG,MARKER	EA	1
C-61	11	XBFZZ		C5077430-174	57958	TAG,MARKER	EA	1
C-61	12	XBFZZ		C5077430-172	57958	TAG,MARKER	EA	1
C-61	13	PAFZZ	5935-00-233-3990	MS3106F18-11S	96906	CONN,PLUG,ELEC	EA	1
N C-61	14	PAFZZ	5935-00-280-2353	MS3057-16A	96906	CLAMP	EA	1

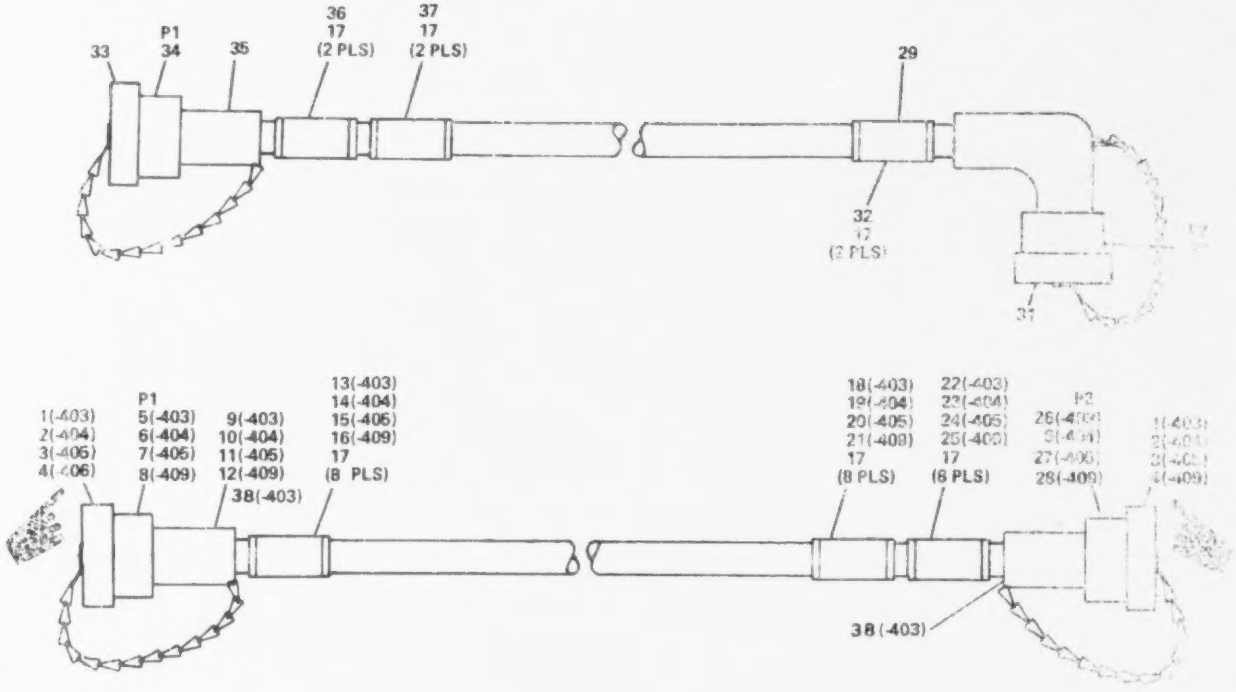


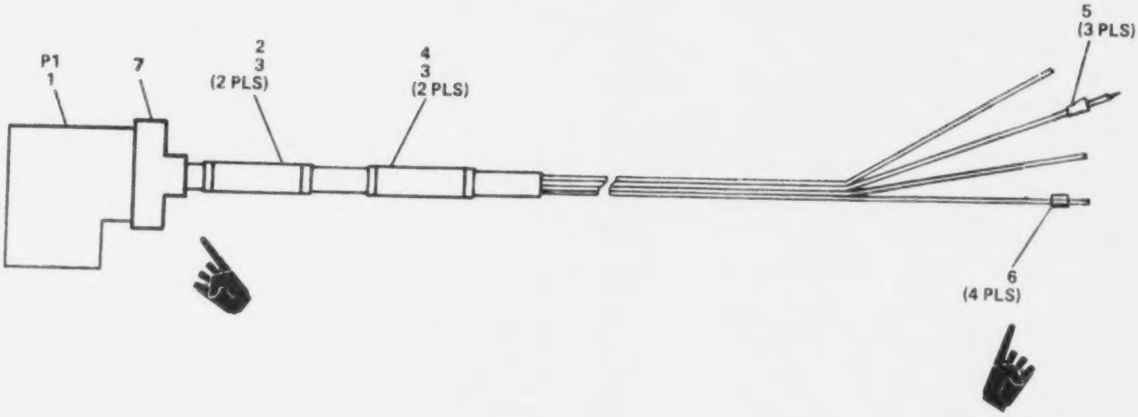
TABLE 1	
DASH NO	REF DES
-403	W403
-404	W404
-405	W405
-407	W407
-409	W409

5042

Figure C-62. Cable Assy. 5055502

SECTION II REPAIR PARTS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 00 CABLE ASSY (57958) 5055502		
C-62	1	PAFZZ	5935-00-476-3563	MS17350C28	96906	COVER,ELEC CONN	EA	2
C-62	2	PAFZZ	5935-00-161-3096	MS25042-18D	96906	COVER,ELEC CONN	EA	2
C-62	3	PAFZZ	5935-00-491-7072	MS25042-28D	96906	COVER,ELEC CONN	EA	2
C-62	4	PAFZZ	5935-00-905-2071	MS3180-14C	96906	COVER,ELEC CONN	EA	2
C-62	5	PAFZZ	5935-00-865-0632	MS17344R28C11S	96906	CONN,PLUG,ELEC	EA	1
C-62	6	PAFZZ	5935-00-189-3932	MS3106F18-1S	96906	CONN,PLUG,ELEC	EA	2
C-62	7	PAFZZ	5935-00-976-6244	MS3106F28-21P	96906	CONN,PLUG,ELEC	EA	1
C-62	8	PAFZZ	5935-01-034-7398	MS3476L14-5P	96906	CONN,PLUG,ELEC	EA	1
C-62	9	PAFZZ		5054432-7	57958	ADPTR,CLP-CONN	EA	2
C-62	10	PAFZZ		5054432-1	57958	ADPTR,CLP-CONN	EA	2
C-62	11	PAFZZ		5054432-15	57958	ADPTR,CLP-CONN	EA	2
C-62	12	PAFZZ		5054432-2	57958	ADPTR,CLP-CONN	EA	2
C-62	13	XBFZZ		C5077430-178	57958	TAG,MARKER	EA	1
C-62	14	XBFZZ		C5077430-181	57958	TAG,MARKER	EA	1
C-62	15	XBFZZ		C5077430-184	57958	TAG,MARKER	EA	1
C-62	16	XBFZZ		C5077430-190	57958	TAG,MARKER	EA	1
C-62	17	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	24
C-62	18	XBFZZ		C5077430-180	57958	TAG,MARKER	EA	1
C-62	19	XBFZZ		C5077430-183	57958	TAG,MARKER	EA	1
C-62	20	XBFZZ		C5077430-186	57958	TAG,MARKER	EA	1
C-62	21	XBFZZ		C5077430-192	57958	TAG,MARKER	EA	1
C-62	22	XBFZZ		C5077430-179	57958	TAG,MARKER	EA	1
C-62	23	XBFZZ		C5077430-182	57958	TAG,MARKER	EA	1
C-62	24	XBFZZ		C5077430-185	57958	TAG,MARKER	EA	1
C-62	25	XBFZZ		C5077430-191	57958	TAG,MARKER	EA	1
C-62	26	PAFZZ	5935-00-865-0631	MS17344R28C11P	96906	CONN,PLUG,ELEC	EA	1
C-62	27	PAFZZ	5935-00-493-5830	MS3106F28-21S	96906	CONN,PLUG,ELEC	EA	1
C-62	28	PAFZZ	5935-00-410-0194	MS3476L14-5S	96906	CONN,PLUG,ELEC	EA	1
C-62	29	PAFZZ		5054467-3	57958	ADPTR,CLP-CONN	EA	1
C-62	30	PAFZZ	5935-00-581-7509	MS3106F22-22P	96906	CONN,PLUG,ELEC	EA	1
C-62	31	PAFZZ		5054670-2	57958	COVER,ELEC CONN	EA	1
C-62	32	XBFZZ		C5077430-188	57958	TAG,MARKER	EA	1
C-62	33	PAFZZ	5935-00-152-7887	MS25042-22D	96906	COVER,ELEC CONN	EA	1
C-62	34	PAFZZ	5935-00-186-1531	MS3106F22-22S	96906	CONN,PLUG,ELEC	EA	1
C-62	35	PAFZZ		5054432-17	57958	ADPTR,CLP-CONN	EA	1
C-62	36	XBFZZ		C5077430-187	57958	TAG,MARKER	EA	1
C-62	37	XBFZZ		C5077430-189	57958	TAG,MARKER	EA	1
N C-62	38	PAFZZ	5365-00-141-6493	MS3420-16	96906	ADAPTER, CABLE CLAMP	EA	2



58434

Figure C-63. Cable Assy., PWR 5055518-145

SECTION II REPAIR PARTS LIST

	(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
	(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
							GROUP 00 CABLE ASSY,PWR (57958) 5055518-145		
	C-63	1	PAFZZ	5935-00-850-6228	MS3108R24-22S	96906	CONN,PLUG,ELEC	EA	1
	C-63	2	XBFZZ		C5077430-193	57958	TAG,MARKER	EA	1
	C-63	3	PAFZZ	5975-00-074-2072	MS3367-1-9	96906	STRAP,TIEDOWN	EA	4
	C-63	4	XBFZZ		C5077430-195	57958	TAG,MARKER	EA	1
	C-63	5	PAFZZ	5940-00-500-8722	C5075892-2	57958	SPLICE,CNDCT	EA	3
C	C-63	6	PAFZZ		5054630-1	57958	INSUL SLVG,ELEC	EA	4
C	C-63	7	PAFZZ	5935-00-280-2353	MS3057-16A	96906	CLAMP	EA	1

SECTION II REPAIR PARTS LIST

	(1) ILLUS (A) FIG NO	(1) ILLUS (B) ITEM NO	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) PART NUMBER	(5) FSCM	(6) DESCRIPTION USABLE ON CODE	(7) U/M	(8) QTY INC IN UNIT
							GROUP 03 BULK MATERIAL		
C	BULK	2	PAFZZ	5970-00-812-2967	M23053-5-108-0	81349	INSUL SLVG,ELEC	FT	V
	BULK	3	PAFZZ	5970-00-815-1300	M23053-5-110-0	81349	INSUL SLVG,ELEC	FT	V
C									
	BULK	5	PAFZZ	6145-00-013-8651	M22759-11-16-9	81349	WIRE,ELECTRICAL	FT	V
	BULK	6	XBDDD	6145-00-090-5411	M22759-9-12-9	81349	WIRE,ELECTRICAL	FT	V
	BULK	7	PAFZZ	6145-00-144-0102	M27500-22RC1S06	81349	CABLE,SP,ELEC	FT	V
	BULK	8	XBDDD	6145-00-195-4063	5054448-1	57958	CABLE,RF	FT	V
	BULK	9	XBDDD	6145-00-323-3983	M22759-9-8-9	81349	WIRE,ELECTRICAL	FT	V
	BULK	10	XBDDD	6145-00-414-3297	M22759-11-12-9	81349	WIRE,ELECTRICAL	FT	V
	BULK	11	PAHZZ	6145-00-600-6052	M22759-11-16-0	81349	WIRE,ELECTRICAL	FT	V
	BULK	12	XBDDD	6145-00-600-6174	M22759-11-16-5	81349	WIRE,ELECTRICAL	FT	V
	BULK	13	PAFZZ	6145-00-839-7432	03213	53909	WIRE,ELECTRICAL	FT	V
	BULK	14	PAFZZ	6145-00-939-4955	M22759-11-20-0	81349	WIRE,ELECTRICAL	FT	V
	BULK	15	PAFZZ	6145-00-939-4964	M22759-11-20-9	81349	WIRE,ELECTRICAL	FT	V
	BULK	16	PAFZZ	6145-00-948-9469	M22759-11-24-0	81349	WIRE,ELECTRICAL	IN	V
	BULK	17	PAHZZ	6145-00-948-9479	M22759-11-24-9	81349	WIRE,ELECTRICAL	FT	V
	BULK	18	XBDDD	6145-01-006-2835	M22759-11-12-0	81349	WIRE,ELECTRICAL	FT	V
	BULK	19	XBDDD	6145-01-007-4701	M22759-11-12-5	81349	WIRE,ELECTRICAL	FT	V
	BULK	20	XBDDD	6145-01-080-9298	M22759-11-22-9	81349	WIRE,ELECTRICAL	FT	V
	BULK	21	XBDDD	6145-01-101-4895	M22759-11-20-5	81349	WIRE,ELECTRICAL	FT	V
	BULK	22	XBDDD	6145-01-136-5805	5054463-4	57958	CABLE,SP,ELEC	FT	V
	BULK	23	XBDDD	6145-01-139-2156	EC24U0-9STX	81349	CABLE,SP,ELEC	FT	V
	BULK	24	PAFZZ	7010-00-152-8497	03224	53909	WIRE,ELECTRICAL	FT	V
	BULK	25	PAFZZ		MILW83420-1B1/8	81349	ROPE,WIRE	FT	V
	BULK	26	PAFZZ		MILI22129-24AWG	81349	INSUL SLVG,ELEC	FT	V
	BULK	27	PAFZZ		C5075822-1	57958	GSKT MATRL,CNDT	FT	V
	BULK	28	XA		0108-1-1124-1	57958	CABLE,PWR,ELEC	FT	V
	BULK	29	PAFZZ		5054398-1	57958	MOULDING PLSTC	IN	V
	BULK	30	XBDDD		5054463-2	57958	CABLE,SP,ELEC	FT	V
	BULK	31	XBDDD		5054463-6	57958	CABLE,SP,ELEC	FT	V
	BULK	32	XA		5054466-1	57958	CABLE ASSY,SP	FT	V
	BULK	33	XA		5054468-3	57958	CABLE,PWR,ELEC	IN	V
	BULK	34	XA		5054471-1	57958	CABLE SP,ELEC	FT	V
C	BULK	35	XA		5054471-3	57958	CABLE,SP,ELEC	FT	V
	BULK	36	XA		5054471-4	57958	CABLE,SP,ELEC	FT	V
	BULK	37	XA		5054471-5	57958	CABLE SP,ELEC	FT	V
C	BULK	38	XBDDD	6145-01-176-9832	5054471-2	57958	CABLE,SP,ELEC	FT	V
N	BULK	39	PAFZZ		C5077421-1	57958	SHIM ASRT	AR	V
N	BULK	40	PAFZZ	5970-00-954-1622	M23053/5-105-0	81349	INSUL SLVG,ELEC	FT	V
N	BULK	41	XA		5054775-5	57958	CABLE,SP,ELEC	FT	V
N	BULK	42	PAFZZ	5970-00-088-2975	M23053/5-104-9	81349	INSUL SLVG,ELEC	FT	V
N	BULK	43	PAFZZ	6145-01-046-9605	M22759-9-14-9	81349	WIRE,ELECTRICAL	FT	V
N	BULK	44	PAFZZ		5054638	57958	ADHESIVE	AR	V
N	BULK	45	PAFZZ	5970-00-812-2969	M23053-5-104-0	81349	INSUL SLVG,ELEC	I	V
N	BULK	46	PAFZZ	5970-00-819-9569	M23053/5-103-9	81349	INSUL SLVG,ELEC	I	V
N	BULK	47	PAFZZ		M23053/5-109-0	81349	INSUL SLVG,ELEC	I	V
N	BULK	48	PAFZZ		QQW343S24S1T	81348	WIRE,ELEC,COPPER	FT	V
N	BULK	49	PAFZZ		0213-1-1427-1	57958	ADHESIVE	AR	V
N	BULK	50	PAFZZ		QQ3575F30T1375	81348	BRAID,WIRE	I	V
N	BULK	51	PAFZZ	5970-00-082-3942	M23053/5-105-9	81349	INSUL SLVG,ELEC	I	V
N	BULK	52	PAFZZ		M27500-20RC1S06	81349	CABLE ELEC	FT	V
N	BULK	53	PAFZZ		5054630-1	81349	INSUL SLVG,ELEC		V

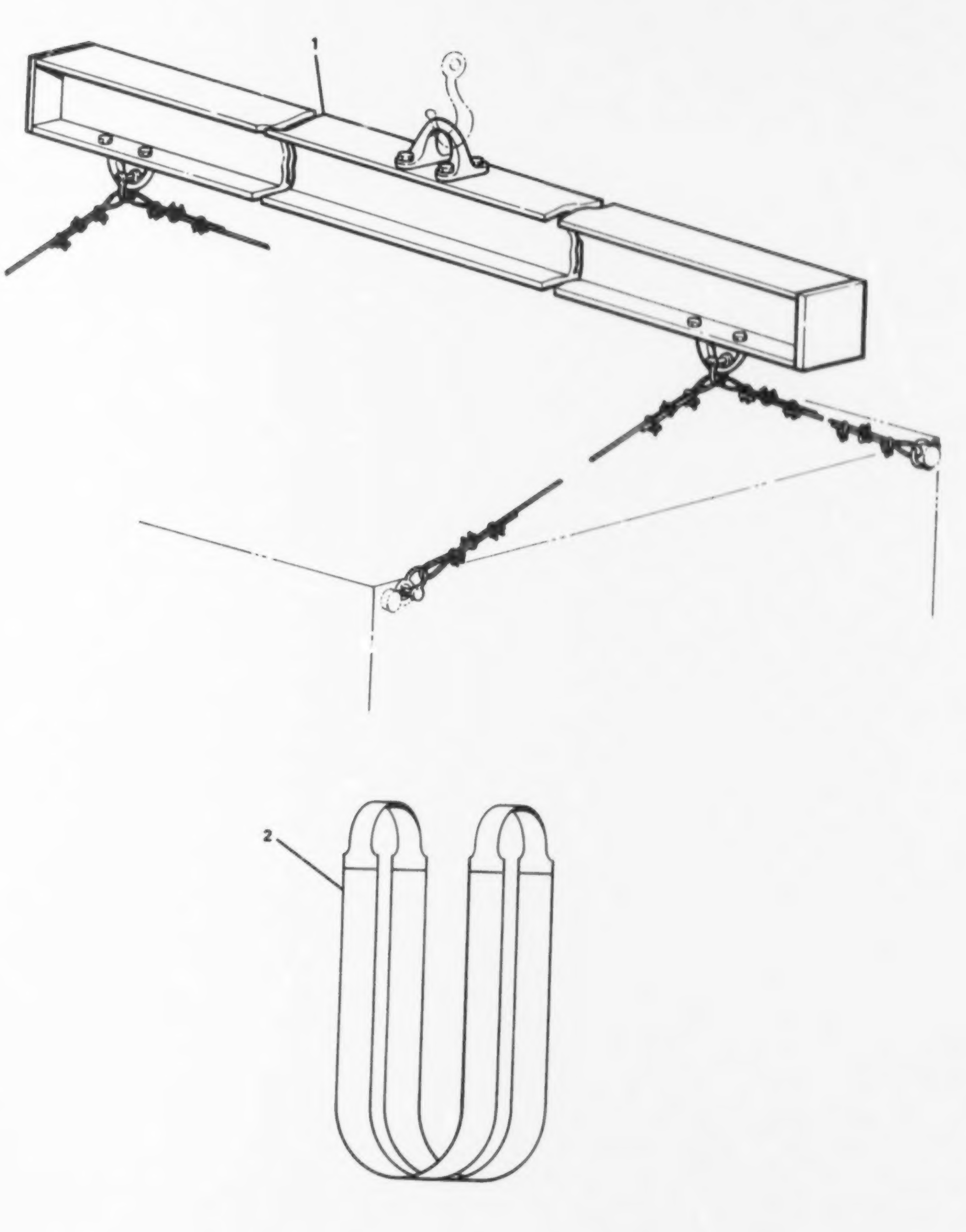


Figure C-64. Special Tools

SECTION III SPECIAL TOOLS LIST

(1) ILLUS		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A) FIG NO	(B) ITEM NO	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 04 SPECIAL TOOLS		
C-64	1	PEFFF		C5075888-1	57958	LIFTING DEVICE	EA	6
C-64	2	PEFZZ		EN1-8010	23755	SLING WEBMASTER/1690	EA	6

SECTION IV

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIGURE NO.	ITEM NO.
5340-00-003-6763	C-27	132
5310-00-003-9174	C-27	17
5330-00-006-2249	C-27	193
5305-00-006-6574	C-27	130
5935-00-006-7153	C-14	22
5935-00-008-4345	C-14	19
5961-00-008-8362	C-14	18
5935-00-009-3157	C-59	36
6145-00-013-8651	BULK	5
5305-00-021-3616	C-27	25
5305-00-021-3616	C-28	1
5305-00-021-3616	C-29	4
5305-00-021-3616	C-30	26
5940-00-041-3646	C-59	171
5305-00-043-0267	C-5	51
5305-00-043-0267	C-6	4
6145-01-046-9605	BULK	43
5305-00-054-5648	C-3	27
5305-00-054-5649	C-3	13
5305-00-054-5651	C-14	4
5305-00-054-5651	C-17	5
5305-00-054-5651	C-20	4
5305-00-054-5651	C-27	177
5305-00-054-5651	C-31	14
5305-00-054-5652	C-13	9
5305-00-054-5652	C-27	117
5305-00-054-5652	C-3	25
5305-00-054-6652	C-24	16
5305-00-054-6652	C-25	16
5305-00-054-6652	C-26	16
5305-00-054-6652	C-3	20
5305-00-054-6652	C-6	10
5305-00-054-6652	C-7	4
5305-00-054-6652	C-8	10
5305-00-054-6653	C-12	41
5305-00-054-6653	C-21	2
5305-00-054-6654	C-15	121
5305-00-054-6654	C-23	5
5305-00-054-6654	C-27	72
5305-00-054-6654	C-31	7
5305-00-054-6655	C-27	186
5305-00-054-6655	C-7	6
5305-00-054-6655	C-9	5
5305-00-054-6656	C-15	111
5305-00-054-6656	C-27	79
5305-00-054-6667	C-6	7
5305-00-054-6667	C-8	5
5305-00-054-6669	C-23	14
5305-00-054-6669	C-27	47
5305-00-054-6670	C-30	8
5305-00-054-6670	C-5	14
5305-00-054-6671	C-30	20
5305-00-054-6672	C-27	39
5305-00-054-6672	C-7	9
5310-00-057-0573	C-3	26
5305-00-057-4593	C-15	88
5310-00-058-3599	C-20	6
5310-00-058-3599	C-3	29
5310-00-058-3599	C-31	5
5305-00-059-3656	C-9	8
5305-00-059-3657	C-10	82
5305-00-059-3659	C-15	101
5305-00-059-3659	C-2	11
5305-00-059-3659	C-22	4
5305-00-059-3659	C-27	2
5305-00-059-3659	C-29	25
5305-00-059-3659	C-5	29
5305-00-059-3660	C-10	78
5305-00-059-3660	C-15	82
5305-00-059-3660	C-2	28
5305-00-059-3660	C-22	24
5305-00-059-3660	C-30	5
5305-00-059-3661	C-10	81
5305-00-059-3661	C-27	33
5305-00-059-3662	C-18	32
5305-00-059-3662	C-27	60
5305-00-059-3663	C-15	9
5305-00-059-3665	C-12	27
5305-00-059-3665	C-15	22
5310-00-063-1611	C-27	186
5305-00-066-7327	C-20	9
5305-00-066-7327	C-24	17
5305-00-066-7327	C-26	17
5305-00-066-7328	C-25	17
5305-00-066-7328	C-3	43
5305-00-066-7369	C-14	1
5305-00-068-0501	C-27	31
5305-00-068-0502	C-12	20
5305-00-068-0502	C-15	41
5305-00-068-0502	C-15	124
5305-00-068-0508	C-12	29
5305-00-068-0508	C-15	18
5305-00-066-0508	C-2	14
5305-00-068-0508	C-2	14
5310-00-069-5291	C-12	49
5310-00-069-5291	C-14	12
5310-00-069-5291	C-5	16
5310-00-069-5291	C-6	6
5310-00-069-5291	C-7	10
5310-00-069-5291	C-8	4
5305-00-069-5581	C-27	96
5305-00-071-1318	C-27	81
5305-00-071-1324	C-29	9
5305-00-071-1324	C-30	13
5305-00-071-1325	C-28	9
5305-00-071-1773	C-27	143
5305-00-071-2236	C-18	27
5305-00-071-2241	C-10	109

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIGURE NO.	ITEM NO.
5305-00-071-2241	C-15	33
5305-00-071-2241	C-18	14
5975-00-074-2072	C-15	48
5975-00-074-2072	C-32	1
5975-00-074-2072	C-35	5
5975-00-074-2072	C-36	6
5975-00-074-2072	C-37	2
5975-00-074-2072	C-38	5
5975-00-074-2072	C-39	3
5975-00-074-2072	C-40	7
5975-00-074-2072	C-41	7
5975-00-074-2072	C-42	5
5975-00-074-2072	C-43	5
5975-00-074-2072	C-44	5
5975-00-074-2072	C-45	4
5975-00-074-2072	C-46	4
5975-00-074-2072	C-47	4
5975-00-074-2072	C-48	3
5975-00-074-2072	C-50	4
5975-00-074-2072	C-51	3
5975-00-074-2072	C-52	3
5975-00-074-2072	C-53	2
5975-00-074-2072	C-54	2
5975-00-074-2072	C-55	5
5975-00-074-2072	C-56	3
5975-00-074-2072	C-57	3
5975-00-074-2072	C-59	5
5975-00-074-2072	C-59	11
5975-00-074-2072	C-61	3
5975-00-074-2072	C-62	17
5975-00-074-2072	C-63	3
5305-00-076-0213	C-10	83
5305-00-076-0213	C-27	137
5305-00-079-5835	C-2	35
5310-00-080-6004	C-1	24
5310-00-080-6004	C-12	16
5310-00-081-4219	C-15	79
5310-00-081-4219	C-27	56
5310-00-081-4219	C-27	56
5310-00-081-4219	C-27	145
5310-00-081-4219	C-3	4
5315-00-081-7016	C-27	122
5970-00-082-3942	BULK	51
5970-00-088-2975	BULK	42
4730-00-088-8908	C-15	100
5305-00-088-9665	C-7	14
5305-00-088-9666	C-12	53
5305-00-088-9666	C-13	13
5305-00-088-9666	C-14	10
5305-00-088-9666	C-3	4
6145-00-090-5411	BULK	6
5935-00-093-8231	C-42	12
5340-00-103-2797	C-5	43
5935-00-106-3925	C-34	1
5935-00-106-3925	C-50	9
5935-00-106-3925	C-60	2
5975-00-111-3208	C-15	51
5905-00-113-4861	C-4	2
5935-00-114-8708	C-59	213
5935-00-114-7525	C-59	214
5110-00-115-5049	C-27	45
5305-00-116-1539	C-27	126
5320-00-117-7286	C-27	71
5935-00-131-9325	C-42	2
5935-00-137-4879	C-27	184
5305-00-140-0253	C-10	97
5305-00-140-0253	C-18	14
5365-00-141-6943	C-62	38
5940-00-143-4771	C-35	11
5940-00-143-4774	C-23	17
5940-00-143-4777	C-40	19
5940-00-143-4777	C-41	16
5940-00-143-4794	C-36	7
5940-00-143-4794	C-37	13
5940-00-143-5284	C-37	14
6145-00-144-0102	BULK	7
4730-00-146-0372	C-15	39
5975-00-152-1075	C-25	26
5935-00-152-7887	C-62	33
7010-00-152-8497	BULK	28
5935-00-161-3096	C-56	4
5935-00-161-3096	C-61	7
5935-00-161-3096	C-62	2
5935-00-163-3644	C-59	198
5935-00-165-3337	C-35	2
5935-00-165-3337	C-38	14
5935-00-165-3342	C-51	4
5935-00-165-3342	C-59	26
5310-00-167-0765	C-10	87
5310-00-167-0804	C-27	101
5310-00-167-0820	C-27	14
5935-00-172-1008	C-51	1
5935-00-172-1008	C-59	44
5305-00-182-9460	C-1	16
5310-00-184-8628	C-23	10
5935-00-186-1531	C-62	34
5935-00-189-3932	C-56	1
5935-00-189-3932	C-62	6
6145-00-195-4063	BULK	9
4730-00-196-1469	C-10	100
4730-00-196-9584	C-10	111
5940-00-204-8966	C-9	11
5310-00-208-9255	C-18	29
5310-00-208-9255	C-27	59
5310-00-209-0790	C-1	25
5310-00-209-0790	C-27	11
5310-00-209-1239	C-15	8
5310-00-209-1239	C-5	31
5310-00-209-1366	C-9	12
5935-00-221-8620	C-27	180
5935-00-224-5989	C-59	174
5305-00-225-3839	C-15	67
5305-00-225-3839	C-27	111
5305-00-225-3840	C-15	89

SECTION IV

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIGURE NO.	ITEM NO.
5305-00-225-3843	C-15	53
5306-00-225-8502	C-15	81
5306-00-225-8506	C-18	2
5305-00-225-9081	C-27	144
5306-00-226-4831	C-3	5
5940-00-230-0515	C-24	19
5940-00-230-0515	C-25	19
5940-00-230-0515	C-26	19
5940-00-230-0515	C-41	15
5935-00-231-3180	C-59	186
5935-00-233-3990	C-61	13
5975-00-234-6779	C-27	134
5310-00-241-6604	C-18	28
5310-00-241-6606	C-18	5
5310-00-245-8825	C-12	12
5310-00-245-8825	C-15	20
5310-00-245-8825	C-2	6
5310-00-245-8825	C-27	29
5310-00-245-8825	C-28	4
5310-00-245-8825	C-29	1
5310-00-245-8825	C-30	25
5935-00-247-3108	C-59	158
5305-00-269-2801	C-15	32
5305-00-269-3209	C-15	91
5305-00-269-3213	C-27	97
5305-00-269-3214	C-1	22
5305-00-269-3214	C-15	70
5305-00-269-3214	C-27	135
5305-00-269-3215	C-18	8
5305-00-269-3216	C-12	15
5305-00-269-3217	C-15	36
5310-00-269-6717	C-27	192
4210-00-270-4512	C-27	40
5325-00-276-6089	C-55	6
5935-00-280-2353	C-61	14
5935-00-280-2353	C-63	7
5975-00-284-6978	C-25	27
4210-00-288-6849	C-27	42
5975-00-296-1669	C-19	13
5940-00-307-9389	C-23	1
5940-00-307-9389	C-24	21
5940-00-307-9389	C-25	21
5940-00-307-9389	C-26	21
6145-00-323-3983	BULK	10
5961-00-333-9058	C-4	1
5310-00-400-5503	C-24	7
5310-00-400-5503	C-25	6
5310-00-400-5503	C-26	7
5935-00-402-1466	C-57	1
5935-00-407-5466	C-59	31
5310-00-407-9566	C-3	3
5935-00-408-4455	C-59	18
5935-00-410-0194	C-59	210
5935-00-410-0194	C-62	28
5935-00-410-0197	C-41	2
5935-00-410-0197	C-53	5
5935-00-410-0198	C-59	32
5935-00-410-1756	C-59	30
5310-00-411-4385	C-18	18

STOCK NUMBER	FIGURE NO.	ITEM NO.
6145-00-414-3297	BULK	11
5935-00-417-8737	C-57	6
5935-00-417-8737	C-59	182
5935-00-425-9861	C-59	160
5925-00-444-0595	C-23	11
5935-00-448-5654	C-20	12
5975-00-451-5001	C-15	43
5975-00-451-5001	C-15	58
5935-00-452-1170	C-61	8
5305-00-459-9828	C-27	15
5935-00-468-2561	C-59	39
5999-00-469-4966	C-27	181
5999-00-469-4971	C-27	185
5935-00-470-8838	C-59	40
5305-00-475-8020	C-12	34
5305-00-475-8020	C-13	12
5935-00-476-3563	C-62	1
5935-00-481-4095	C-9	14
5975-00-489-3839	C-27	152
5935-00-491-7072	C-62	3
5935-00-493-5830	C-62	27
5935-00-496-3864	C-43	10
5935-00-496-7835	C-44	12
5935-00-496-7835	C-59	17
5935-00-496-7838	C-52	1
5935-00-496-7838	C-59	19
5935-00-496-7920	C-59	28
5835-00-497-8478	C-11	41
5935-00-500-5008	C-27	178
5940-00-500-8722	C-63	5
5935-00-518-3576	C-55	1
5935-00-518-3576	C-59	35
5999-00-520-8087	C-17	8
5999-00-520-8087	C-20	1
5999-00-520-8087	C-27	175
7035-00-533-4464	C-3	23
5310-00-543-2862	C-18	17
5310-00-550-5054	C-28	13
5310-00-550-5054	C-29	27
5310-00-550-5054	C-30	41
5935-00-553-9424	C-43	2
5935-00-553-9424	C-48	1
5935-00-553-9424	C-59	41
5975-00-570-9598	C-15	52
5935-00-581-7509	C-62	30
5310-00-582-5677	C-10	107
5310-00-582-5677	C-12	22
5310-00-582-5677	C-15	15
5310-00-582-5677	C-15	19
5310-00-582-5677	C-18	12
5310-00-582-5677	C-19	6
5310-00-582-5677	C-24	9
5310-00-582-5677	C-25	8
5310-00-582-5677	C-26	9

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	FIGURE NO.	ITEM NO.
5310-00-582-5677	C-27	30
5310-00-595-6057	C-15	30
5310-00-595-6211	C-14	3
5310-00-595-6211	C-17	6
5310-00-595-6211	C-20	8
5310-00-595-6211	C-27	115
5310-00-595-6211	C-3	12
5310-00-595-6211	C-31	3
5310-00-595-6772	C-10	84
5310-00-595-6772	C-12	25
5310-00-595-6772	C-13	8
5310-00-595-6772	C-15	7
5310-00-595-6772	C-18	26
5310-00-595-6772	C-19	2
5310-00-595-6772	C-2	13
5310-00-595-6772	C-22	10
5310-00-595-6772	C-27	4
5310-00-595-6772	C-28	7
5310-00-595-6772	C-29	7
5310-00-595-6772	C-29	23
5310-00-595-6772	C-30	9
5310-00-595-6772	C-5	4
5310-00-595-6772	C-9	7
5365-00-598-5417	C-16	21
6145-00-600-6052	BULK	13
6145-00-600-6174	BULK	14
5940-00-606-4190	C-23	2
5935-00-608-4561	C-53	9
5310-00-614-3552	C-14	16
5310-00-614-3552	C-23	16
5310-00-614-3552	C-31	10
5310-00-614-3552	C-7	11
5310-00-616-8660	C-9	9
5310-00-625-5756	C-18	3
5340-00-629-3413	C-6	3
5340-00-629-3413	C-8	2
5310-00-655-6151	C-1	17
5975-00-669-9467	C-27	133
5305-00-702-4523	C-28	15
5305-00-702-4523	C-29	22
5305-00-717-5592	C-13	11
4730-00-719-2596	C-27	187
5305-00-719-5221	C-1	21
4820-00-720-4488	C-15	40
5935-00-721-0490	C-17	7
5310-00-722-5969	C-27	110
5310-00-722-5998	C-12	38
5310-00-722-5998	C-15	109
5310-00-722-5998	C-21	4
5310-00-722-5998	C-23	6
5310-00-722-5998	C-24	15
5310-00-722-5998	C-25	14
5310-00-722-5998	C-26	15
5310-00-722-5998	C-27	74
5310-00-722-5998	C-3	9
5310-00-722-5998	C-31	8
5310-00-722-5998	C-6	11
5310-00-722-5998	C-7	2
5310-00-722-5998	C-8	8
5310-00-722-5998	C-9	3
5305-00-724-5910	C-27	9
5305-00-724-5914	C-27	12
5975-00-727-5153	C-15	50
4730-00-727-7387	C-27	191
5305-00-727-8832	C-23	4
5935-00-728-6769	C-59	27
6230-00-729-9614	C-27	34
5310-00-732-0558	C-12	18
5310-00-732-0558	C-15	75
5310-00-732-0558	C-27	91
5940-00-740-7933	C-20	7
5935-00-755-2901	C-59	1
5935-00-760-0772	C-59	38
5310-00-761-6882	C-19	7
4730-00-762-1239	C-27	190
5935-00-763-8241	C-59	204
5310-00-764-9564	C-1	15
5310-00-764-9564	C-15	13
5310-00-764-9564	C-2	7
5310-00-764-9564	C-27	23
5310-00-764-9564	C-28	2
5310-00-764-9564	C-29	2
5310-00-764-9564	C-30	24
5310-00-773-7618	C-15	35
5310-00-773-7618	C-18	10
5310-00-773-7618	C-27	109
5310-00-773-7624	C-9	10
5305-00-780-8454	C-31	6
5305-00-781-5663	C-27	105
5935-00-782-7106	C-59	156
5305-00-782-9495	C-10	122
5935-00-785-7021	C-14	21
5935-00-785-7021	C-9	13
5935-00-785-7850	C-59	33
4730-00-786-9666	C-27	188
5305-00-788-5487	C-10	114
5305-00-788-5487	C-18	1
4730-00-797-7957	C-27	194
5310-00-809-5998	C-1	19
5310-00-809-5998	C-10	120
5310-00-809-5998	C-27	141
5970-00-812-2967	BULK	2
5970-00-812-2969	BULK	45
4730-00-812-5424	C-10	117
5940-00-813-0698	C-56	6
5970-00-815-1300	BULK	3
5935-00-815-2325	C-53	6
5970-00-819-9569	C-35	10
5970-00-819-9569	BULK	46
5935-00-827-7492	C-38	1
5935-00-827-7492	C-59	29
4730-00-833-0508	C-15	98

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STOCK NUMBER	FIGURE NO.	ITEM NO.
5935-00-838-3860	C-59	162
5340-00-838-9402	C-55	3
6145-00-839-7432	BULK	15
6145-00-839-7432	C-36	3
5935-00-846-7856	C-59	2
5935-00-850-6228	C-63	1
5940-00-857-3414	C-20	15
4730-00-863-9093	C-15	74
5935-00-865-0631	C-62	26
5935-00-865-0632	C-62	5
6135-00-866-3825	C-3	21
5965-00-876-2375	C-12	42
5935-00-879-2763	C-61	6
5310-00-880-5978	C-23	15
5310-00-880-5978	C-27	37
5310-00-880-5978	C-30	7
5310-00-880-5978	C-31	11
5310-00-880-7744	C-27	54
5310-00-880-7744	C-3	2
5935-00-885-3852	C-57	7
5935-00-885-3852	C-59	184
5820-00-892-3339	C-12	36
5820-00-893-1323	C-12	6
5935-00-905-2071	C-62	4
4820-00-909-3942	C-15	99
5305-00-914-7023	C-27	103
5940-00-918-8068	C-14	15
5935-00-921-3399	C-59	165
5305-00-926-5532	C-10	4
5305-00-926-5532	C-11	5
5305-00-926-5532	C-15	114
5305-00-926-5532	C-2	4
5305-00-926-5532	C-29	19
5305-00-926-5532	C-30	21
5935-00-928-3127	C-33	1
5935-00-928-3127	C-34	8
5935-00-928-3127	C-50	1
5935-00-928-3127	C-60	3
5310-00-929-6395	C-12	39
5310-00-929-6395	C-15	110
5310-00-929-6395	C-21	3
5310-00-929-6395	C-23	21
5310-00-929-6395	C-24	14
5310-00-929-6395	C-25	13
5310-00-929-6395	C-26	14
5310-00-929-6395	C-27	73
5310-00-929-6395	C-3	10
5310-00-929-6395	C-6	13
5310-00-929-6395	C-7	3
5310-00-929-6395	C-8	9
5310-00-929-6395	C-9	4

STOCK NUMBER	FIGURE NO.	ITEM NO.
5935-00-930-9419	C-59	159
5320-00-932-1972	C-1	4
5310-00-933-8118	C-14	8
5310-00-933-8118	C-17	9
5310-00-933-8118	C-20	16
5310-00-933-8118	C-27	114
5310-00-933-8118	C-3	31
5310-00-933-8118	C-31	2
5310-00-933-8120	C-10	79
5310-00-933-8120	C-12	26
5310-00-933-8120	C-13	7
5310-00-933-8120	C-15	10
5310-00-933-8120	C-19	15
5310-00-933-8120	C-2	12
5310-00-933-8120	C-22	11
5310-00-933-8120	C-27	3
5310-00-933-8120	C-28	6
5310-00-933-8120	C-29	6
5310-00-933-8120	C-29	24
5310-00-933-8120	C-30	10
5310-00-933-8120	C-5	3
5310-00-933-8121	C-10	108
5310-00-933-8121	C-12	21
5310-00-933-8121	C-15	14
5310-00-933-8121	C-18	13
5310-00-933-8121	C-19	4
5310-00-933-8121	C-24	8
5310-00-933-8121	C-25	7
5310-00-933-8121	C-26	8
5310-00-933-8121	C-27	24
5310-00-933-8778	C-1	20
5310-00-933-8778	C-10	121
5310-00-933-8778	C-27	142
5310-00-934-9748	C-14	9
5310-00-934-9748	C-17	10
5310-00-934-9748	C-20	11
5310-00-934-9748	C-27	113
5310-00-934-9748	C-3	32
5310-00-934-9748	C-31	1
5310-00-934-9759	C-12	51
5310-00-934-9759	C-14	14
5310-00-934-9759	C-23	19
5310-00-934-9759	C-31	9
5310-00-934-9759	C-7	13
5310-00-934-9761	C-12	40
5310-00-934-9761	C-23	20
5310-00-934-9761	C-24	13
5310-00-934-9761	C-25	12
5310-00-934-9761	C-26	13
5310-00-934-9761	C-3	11
5310-00-934-9761	C-7	16
5310-00-934-9765	C-13	6
5310-00-934-9765	C-19	5
5310-00-934-9765	C-22	12

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STOCK NUMBER	FIGURE NO.	ITEM NO.
5310-00-934-9765	C-27	153
5310-00-934-9765	C-28	5
5310-00-934-9765	C-29	5
5310-00-934-9765	C-30	11
5310-00-934-9765	C-5	2
5310-00-934-9765	C-5	17
5310-00-937-0453	C-27	7
6145-00-939-4955	BULK	17
6145-00-939-4964	BULK	16
5940-00-939-7825	C-3	30
5940-00-939-7825	C-31	4
5305-00-943-5939	C-19	16
5305-00-943-5939	C-27	123
5305-00-943-5939	C-30	16
6145-00-948-9469	BULK	18
6145-00-948-9479	BULK	19
4730-00-951-2382	C-15	26
4730-00-951-2382	C-27	189
4730-00-954-1281	C-10	113
5970-00-954-1622	BULK	40
5340-00-954-3134	C-19	3
5305-00-958-2918	C-24	1
5305-00-958-2918	C-25	1
5305-00-958-2918	C-26	1
4730-00-959-3819	C-10	92
5305-00-959-4158	C-5	21
5305-00-959-4158	C-8	3
6145-00-972-9782	C-59	202
5310-00-973-8786	C-27	95
5310-00-974-6623	C-15	80
5310-00-974-6623	C-27	55
5310-00-974-6623	C-27	147
5935-00-976-6244	C-62	7
5310-00-984-7042	C-1	23
5310-00-984-7042	C-12	17
5310-00-984-7042	C-15	31
5310-00-984-7042	C-18	9
5310-00-984-7042	C-27	92
5975-00-985-6630	C-15	60
5985-00-985-9024	C-12	14
5340-00-988-3210	C-7	17
5305-00-988-7845	C-27	102
5305-00-988-7846	C-15	72
5310-00-989-0640	C-30	6
5935-00-992-2035	C-59	209
5305-00-992-5942	C-18	25
5935-00-993-2949	C-27	148
4730-00-995-1590	C-15	42
5935-00-995-1665	C-60	4
5310-00-995-9455	C-27	139
5340-00-998-0611	C-13	10
5935-00-998-5598	C-27	174
6145-01-006-2835	BULK	21
6145-01-007-4701	BULK	22
5935-01-009-1946	C-41	1
5310-01-009-7014	C-27	22
5940-01-010-2898	C-59	173
5315-01-013-3833	C-26	11
5940-01-013-8288	C-23	9
5340-01-023-6108	C-6	12
5340-01-023-6108	C-8	7
5935-01-026-8552	C-42	11
5315-01-027-6616	C-27	121
5930-01-029-9109	C-19	11
5999-01-032-1188	C-38	13
5999-01-032-1188	C-39	6
5935-01-033-9639	C-27	149
5935-01-034-7398	C-62	8
5935-01-036-6806	C-14	23
5935-01-036-6806	C-59	203
5935-01-036-7422	C-59	170
5935-01-043-0637	C-33	5
5935-01-043-5841	C-60	1
5935-01-043-9289	C-50	10
6145-01-046-9605	BULK	43
5365-01-048-7838	C-27	63
5410-01-052-8483	C-27	1
5935-01-057-0430	C-36	1
5935-01-057-0430	C-41	3
5935-01-057-7630	C-39	1
6130-01-062-0818	C-9	6
5310-01-067-9589	C-12	50
5310-01-067-9589	C-14	13
5310-01-067-9589	C-19	12
5310-01-067-9589	C-23	18
5310-01-067-9589	C-27	38
5310-01-067-9589	C-5	15
5310-01-067-9589	C-7	12
5935-01-068-1637	C-4	6
5935-01-070-7484	C-35	1
5935-01-070-7484	C-41	17
5935-01-070-8411	C-59	157
6145-01-080-9298	BULK	24
5999-01-085-8104	C-35	12
5999-01-085-8104	C-36	8
5935-01-089-6681	C-59	42
6625-01-092-1814	C-31	13
5975-01-093-0341	C-24	20
5975-01-093-0341	C-25	20
5975-01-093-0341	C-26	20
5975-01-095-3382	C-23	3
5935-01-096-6201	C-59	183
5935-01-097-4672	C-59	175
5935-01-098-0660	C-42	1
6145-01-101-4895	BULK	25
4730-01-104-2268	C-15	115
5865-01-109-1679	C-11	46

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STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5865-01-109-1681	C-15	90			
5865-01-109-1683	C-11	42			
5865-01-109-1684	C-10	3			
5865-01-109-1685	C-15	2			
5865-01-109-1686	C-2	40			
5865-01-109-1687	C-11	19			
5865-01-109-1689	C-11	68			
5865-01-109-1690	C-11	40			
5865-01-109-1691	C-10	12			
5865-01-109-1692	C-10	23			
5865-01-109-1695	C-5	1			
5865-01-109-1696	C-15	6			
5985-01-109-1697	C-15	1			
5865-01-109-1701	C-10	45			
5865-01-109-1702	C-10	72			
5865-01-109-3983	C-2	24			
5865-01-115-7826	C-27	19			
5865-01-115-7827	C-27	26			
5865-01-115-7828	C-27	13			
5865-01-116-1047	C-27	16			
5340-01-117-2499	C-12	23			
5340-01-117-2499	C-15	80			
5340-01-117-2499	C-15	84			
5985-01-118-5420	C-15	66			
5340-01-120-8267	C-10	80			
5340-01-121-2862	C-15	23			
5935-01-123-8014	C-20	3			
5985-01-126-2477	C-15	28			
5340-01-131-3132	C-27	154			
5340-01-132-0601	C-27	151			
5935-01-132-1566	C-43	1			
5930-01-132-8668	C-3	15			
5930-01-132-8670	C-3	19			
6210-01-132-9232	C-3	18			
6145-01-136-5805	BULK	35			
6145-01-139-2156	BULK	27			
5340-01-139-9638	C-27	51			
5985-01-141-4321	C-10	89			
5970-01-141-5254	C-10	4			
5970-01-141-5254	C-11	2			
5970-01-141-5254	C-15	113			
5970-01-141-5254	C-2	3			
5970-01-141-5254	C-29	20			
5970-01-141-5254	C-30	22			
4730-01-141-7173	C-10	91			
5340-01-146-0479	C-15	104			
6240-01-147-4339	C-3	17			
5935-01-158-5335	C-56	3			
5930-01-159-4846	C-19	10			
6145-01-176-9832	BULK	38			

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PART NUMBER	FSCM	FIG. NO.	ITEM NO.
ANUNH17	80058	C-11	41
ANUYQ10	80058	C-3	23
AN415-5	88044	C-27	65
AN816-6-6D	88044	C-10	111
AN912-10J	88044	C-10	117
AN912-4K	88044	C-10	92
AN912-9K	88044	C-15	39
AN924-24S	88044	C-27	186
AN960-516	88044	C-27	14
AN960C616	88044	C-27	101
AN970-3	88044	C-10	87
AN970-8	88044	C-27	110
AS1729VRC	80058	C-12	14
BA-58	81349	C-3	21
C2298VRC	80058	C-12	36
C5075812-1	57958	C-2	10
C5075813-1	57958	C-27	21
C5075813-2	57958	C-27	20
C5075814-301	57958	C-12	2
C5075817-1	57958	C-15	71
C5075820-1	57958	C-27	5
C5075822-1	57958	BULK	30
C5075827-1	57958	C-18	16
C5075848-1	57958	C-14	17
C5075848-2	57958	C-14	20
C5075848-3	57958	C-14	6
C5075848-4	57958	C-14	5
C5075848-5	57958	C-14	24
C5075857-1	57958	C-27	22
C5075882-1	57958	C-15	63
C5075882-2	57958	C-15	55
C5075885-1	57958	C-1	2
C5075892-2	57958	C-63	5
C5075895-1	57958	C-18	34
C5077097-1	57958	C-15	86
C5077099-1	57958	C-27	58
C5077099-109	57958	C-27	61
C5077102-1	57958	C-10	85
C5077103-1	57958	C-10	86
C5077111-1	57958	C-27	124
C5077116-1	57958	C-27	119
C5077117-1	57958	C-27	82
C5077122-1	57958	C-27	62
C5077122-2	57958	C-27	66
C5077124-1	57958	C-27	68
C5077125-1	57958	C-27	65
C5077126-1	57958	C-15	102
C5077128-1	57958	C-27	57
C5077131-1	57958	C-10	103
C5077132-1	57958	C-1	14
C5077142-1	57958	C-27	104
C5077145-1	57958	C-28	10
C5077146-1	57958	C-10	95
C5077147-1	57958	C-27	125
C5077157-1	57958	C-27	93
C5077163-1	57958	C-28	18
C5077163-1	57958	C-29	14
C5077163-1	57958	C-30	35
C5077163-2	57958	C-28	19
C5077163-2	57958	C-29	15
C5077163-2	57958	C-30	34
C5077163-3	57958	C-30	28
C5077163-4	57958	C-30	27
C5077166-1	57958	C-27	50
C5077373-1	57958	C-27	135
C5077375-271	57958	C-5	7
C5077376-199	57958	C-11	33
C5077376-270	57958	C-5	24
C5077377-147	57958	C-27	155
C5077377-275	57958	C-2	17
C5077378-146	57958	C-11	38
C5077380-109	57958	C-10	66
C5077380-119	57958	C-10	58
C5077380-129	57958	C-10	51
C5077381-255	57958	C-5	41
C5077381-256	57958	C-22	2
C5077381-256	57958	C-5	45
C5077381-276	57958	C-5	37
C5077382-253	57958	C-22	4
C5077383-138	57958	C-22	16
C5077383-139	57958	C-22	33
C5077383-140	57958	C-22	28
C5077383-141	57958	C-22	7
C5077383-142	57958	C-8	14
C5077384-254	57958	C-2	30
C5077384-277	57958	C-5	20
C5077384-277	57958	C-5	20
C5077384-287	57958	C-22	8
C5077385-245	57958	C-12	5
C5077385-408	57958	C-1	8
C5077387-241	57958	C-2	19
C5077387-242	57958	C-2	18
C5077389-1	57958	C-27	128
C5077390-159	57958	C-10	76
C5077390-172	57958	C-10	74
C5077390-184	57958	C-10	24
C5077394-130	57958	C-10	16
C5077394-131	57958	C-10	13
C5077394-132	57958	C-10	14
C5077395-133	57958	C-10	1
C5077395-134	57958	C-10	2
C5077395-150	57958	C-10	15
C5077395-150	57958	C-15	120
C5077396-152	57958	C-10	9
C5077396-153	57958	C-10	10
C5077396-154	57958	C-10	11
C5077396-155	57958	C-10	8
C5077396-156	57958	C-10	7

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PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
C5077396-157	57958	C-10	6	C5077414-128	57958	C-60	93
C5077397-1	57958	C-2	27	C5077414-129	57958	C-60	222
C5077398-273	57958	C-27	76	C5077414-130	57958	C-60	158
C5077398-274	57958	C-27	77	C5077414-131	57958	C-60	29
C5077399-290	57958	C-15	11	C5077414-132	57958	C-60	288
C5077399-292	57958	C-12	24	C5077414-133	57958	C-60	94
C5077400-1	57958	C-11	45	C5077414-134	57958	C-60	223
C5077400-1	57958	C-2	34	C5077414-135	57958	C-60	159
C5077401-1	57958	C-10	70	C5077414-136	57958	C-60	30
C5077401-1	57958	C-11	9	C5077414-137	57958	C-60	289
C5077401-1	57958	C-2	22	C5077414-138	57958	C-60	95
C5077403-1	57958	C-27	127	C5077414-139	57958	C-60	224
C5077404-1	57958	C-27	136	C5077414-140	57958	C-60	160
C5077406-1	57958	C-12	8	C5077414-141	57958	C-60	31
C5077406-1	57958	C-27	183	C5077414-142	57958	C-60	290
C5077407-1	57958	C-29	8	C5077414-143	57958	C-60	96
C5077407-1	57958	C-30	12	C5077414-144	57958	C-60	225
C5077408-1	57958	C-28	8	C5077414-145	57958	C-60	161
C5077409-293	57958	C-27	18	C5077414-146	57958	C-60	32
C5077409-294	57958	C-27	27	C5077414-147	57958	C-60	291
C5077409-295	57958	C-27	28	C5077414-148	57958	C-60	97
C5077410-296	57958	C-27	10	C5077414-149	57958	C-60	226
C5077411-411	57958	C-15	4	C5077414-150	57958	C-60	162
C5077412-412	57958	C-15	5	C5077414-151	57958	C-60	33
C5077414-1	57958	C-60	5	C5077414-152	57958	C-60	292
C5077414-10	57958	C-60	136	C5077414-153	57958	C-60	98
C5077414-100	57958	C-60	152	C5077414-154	57958	C-60	227
C5077414-101	57958	C-60	23	C5077414-155	57958	C-60	163
C5077414-102	57958	C-60	282	C5077414-156	57958	C-60	34
C5077414-103	57958	C-60	88	C5077414-157	57958	C-60	293
C5077414-104	57958	C-60	217	C5077414-158	57958	C-60	99
C5077414-105	57958	C-60	153	C5077414-159	57958	C-60	228
C5077414-106	57958	C-60	24	C5077414-16	57958	C-60	7
C5077414-107	57958	C-60	283	C5077414-160	57958	C-60	164
C5077414-108	57958	C-60	89	C5077414-161	57958	C-60	35
C5077414-109	57958	C-60	218	C5077414-162	57958	C-60	294
C5077414-110	57958	C-60	154	C5077414-163	57958	C-60	100
C5077414-111	57958	C-60	25	C5077414-164	57958	C-60	229
C5077414-112	57958	C-60	284	C5077414-165	57958	C-60	165
C5077414-113	57958	C-60	90	C5077414-166	57958	C-60	36
C5077414-114	57958	C-60	219	C5077414-167	57958	C-60	295
C5077414-115	57958	C-60	155	C5077414-168	57958	C-60	101
C5077414-116	57958	C-60	26	C5077414-169	57958	C-60	230
C5077414-117	57958	C-60	285	C5077414-17	57958	C-60	266
C5077414-118	57958	C-60	91	C5077414-170	57958	C-60	166
C5077414-119	57958	C-60	220	C5077414-171	57958	C-60	37
C5077414-120	57958	C-60	156	C5077414-172	57958	C-60	296
C5077414-121	57958	C-60	27	C5077414-173	57958	C-60	102
C5077414-122	57958	C-60	286	C5077414-174	57958	C-60	231
C5077414-123	57958	C-60	92	C5077414-175	57958	C-60	167
C5077414-124	57958	C-60	221	C5077414-176	57958	C-60	38
C5077414-125	57958	C-60	157	C5077414-177	57958	C-60	297
C5077414-126	57958	C-60	28	C5077414-178	57958	C-60	103
C5077414-127	57958	C-60	287	C5077414-179	57958	C-60	232

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PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
C5077414-18	57958	C-60	72	C5077414-228	57958	C-60	113
C5077414-180	57958	C-60	168	C5077414-229	57958	C-60	242
C5077414-181	57958	C-60	39	C5077414-23	57958	C-60	73
C5077414-182	57958	C-60	298	C5077414-230	57958	C-60	178
C5077414-183	57958	C-60	104	C5077414-231	57958	C-60	49
C5077414-184	57958	C-60	233	C5077414-232	57958	C-60	308
C5077414-185	57958	C-60	169	C5077414-233	57958	C-60	114
C5077414-186	57958	C-60	40	C5077414-234	57958	C-60	243
C5077414-187	57958	C-60	299	C5077414-235	57958	C-60	179
C5077414-188	57958	C-60	105	C5077414-236	57958	C-10	50
C5077414-189	57958	C-60	234	C5077414-237	57958	C-10	309
C5077414-19	57958	C-60	201	C5077414-238	57958	C-10	115
C5077414-190	57958	C-60	170	C5077414-239	57958	C-10	244
C5077414-191	57958	C-10	41	C5077414-24	57958	C-60	202
C5077414-192	57958	C-10	300	C5077414-240	57958	C-10	180
C5077414-193	57958	C-10	106	C5077414-241	57958	C-10	51
C5077414-194	57958	C-10	235	C5077414-242	57958	C-10	310
C5077414-195	57958	C-10	171	C5077414-243	57958	C-10	116
C5077414-196	57958	C-60	42	C5077414-244	57958	C-10	245
C5077414-197	57958	C-60	301	C5077414-245	57958	C-10	181
C5077414-198	57958	C-60	107	C5077414-246	57958	C-60	52
C5077414-199	57958	C-60	236	C5077414-247	57958	C-60	311
C5077414-2	57958	C-60	264	C5077414-248	57958	C-60	117
C5077414-20	57958	C-60	137	C5077414-249	57958	C-60	246
C5077414-200	57958	C-60	172	C5077414-25	57958	C-60	138
C5077414-201	57958	C-60	43	C5077414-250	57958	C-60	182
C5077414-202	57958	C-60	302	C5077414-251	57958	C-60	53
C5077414-203	57958	C-60	108	C5077414-252	57958	C-60	312
C5077414-204	57958	C-60	237	C5077414-253	57958	C-60	118
C5077414-205	57958	C-60	173	C5077414-254	57958	C-60	247
C5077414-206	57958	C-60	44	C5077414-255	57958	C-60	183
C5077414-207	57958	C-60	303	C5077414-256	57958	C-60	54
C5077414-208	57958	C-60	109	C5077414-257	57958	C-60	313
C5077414-209	57958	C-60	238	C5077414-258	57958	C-60	119
C5077414-21	57958	C-60	8	C5077414-259	57958	C-60	248
C5077414-210	57958	C-60	174	C5077414-26	57958	C-60	9
C5077414-211	57958	C-60	45	C5077414-260	57958	C-60	184
C5077414-212	57958	C-60	304	C5077414-261	57958	C-60	55
C5077414-213	57958	C-60	110	C5077414-262	57958	C-60	314
C5077414-214	57958	C-60	239	C5077414-263	57958	C-60	120
C5077414-215	57958	C-60	175	C5077414-264	57958	C-60	249
C5077414-216	57958	C-60	46	C5077414-265	57958	C-60	185
C5077414-217	57958	C-60	305	C5077414-266	57958	C-60	57
C5077414-218	57958	C-60	111	C5077414-267	57958	C-60	315
C5077414-219	57958	C-60	240	C5077414-268	57958	C-60	122
C5077414-22	57958	C-60	267	C5077414-269	57958	C-60	251
C5077414-220	57958	C-60	176	C5077414-27	57958	C-60	268
C5077414-221	57958	C-60	47	C5077414-270	57958	C-60	186
C5077414-222	57958	C-60	306	C5077414-271	57958	C-60	58
C5077414-223	57958	C-60	112	C5077414-272	57958	C-60	316
C5077414-224	57958	C-60	241	C5077414-273	57958	C-60	123
C5077414-225	57958	C-60	177	C5077414-274	57958	C-60	252
C5077414-226	57958	C-60	48	C5077414-275	57958	C-60	187
C5077414-227	57958	C-60	307	C5077414-276	57958	C-60	59

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PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
C5077414-277	57958	C-60	317	C5077414-325	57958	C-60	197
C5077414-278	57958	C-60	124	C5077414-326	57958	C-60	69
C5077414-279	57958	C-60	253	C5077414-327	57958	C-60	327
C5077414-28	57958	C-60	74	C5077414-328	57958	C-60	134
C5077414-280	57958	C-60	188	C5077414-329	57958	C-60	263
C5077414-281	57958	C-60	59	C5077414-33	57958	C-60	75
C5077414-282	57958	C-60	318	C5077414-330	57958	C-60	198
C5077414-283	57958	C-60	125	C5077414-34	57958	C-60	204
C5077414-284	57958	C-60	254	C5077414-35	57958	C-60	140
C5077414-285	57958	C-60	189	C5077414-.	57958	C-60	199
C5077414-286	57958	C-60	60	C5077414-41	57958	C-60	11
C5077414-287	57958	C-60	319	C5077414-42	57958	C-60	270
C5077414-288	57958	C-60	126	C5077414-43	57958	C-60	76
C5077414-289	57958	C-60	255	C5077414-44	57958	C-60	205
C5077414-29	57958	C-60	203	C5077414-45	57958	C-60	141
C5077414-290	57958	C-60	190	C5077414-46	57958	C-60	12
C5077414-291	57958	C-60	61	C5077414-47	57958	C-60	271
C5077414-292	57958	C-60	320	C5077414-48	57958	C-60	77
C5077414-293	57958	C-60	127	C5077414-49	57958	C-60	206
C5077414-294	57958	C-60	256	C5077414-5	57958	C-60	135
C5077414-295	57958	C-60	191	C5077414-50	57958	C-60	142
C5077414-296	57958	C-60	63	C5077414-51	57958	C-60	13
C5077414-297	57958	C-60	321	C5077414-52	57958	C-60	272
C5077414-298	57958	C-60	128	C5077414-53	57958	C-60	78
C5077414-299	57958	C-60	257	C5077414-54	57958	C-60	207
C5077414-3	57958	C-60	70	C5077414-55	57958	C-60	143
C5077414-30	57958	C-60	139	C5077414-56	57958	C-60	14
C5077414-300	57958	C-60	192	C5077414-57	57958	C-60	273
C5077414-301	57958	C-60	64	C5077414-58	57958	C-60	79
C5077414-302	57958	C-60	322	C5077414-59	57958	C-60	208
C5077414-303	57958	C-60	129	C5077414-6	57958	C-60	6
C5077414-304	57958	C-60	258	C5077414-60	57958	C-60	144
C5077414-305	57958	C-60	193	C5077414-61	57958	C-60	15
C5077414-306	57958	C-60	65	C5077414-62	57958	C-60	274
C5077414-307	57958	C-60	323	C5077414-63	57958	C-60	80
C5077414-308	57958	C-60	130	C5077414-64	57958	C-60	209
C5077414-309	57958	C-60	259	C5077414-65	57958	C-60	145
C5077414-31	57958	C-60	10	C5077414-66	57958	C-60	16
C5077414-310	57958	C-60	194	C5077414-67	57958	C-60	275
C5077414-311	57958	C-60	66	C5077414-68	57958	C-60	81
C5077414-312	57958	C-60	324	C5077414-69	57958	C-60	210
C5077414-313	57958	C-60	131	C5077414-7	57958	C-60	265
C5077414-314	57958	C-60	260	C5077414-70	57958	C-60	146
C5077414-315	57958	C-60	195	C5077414-71	57958	C-60	17
C5077414-316	57958	C-60	67	C5077414-72	57958	C-60	276
C5077414-317	57958	C-60	325	C5077414-73	57958	C-60	82
C5077414-318	57958	C-60	132	C5077414-74	57958	C-60	211
C5077414-319	57958	C-60	261	C5077414-75	57958	C-60	147
C5077414-32	57958	C-60	269	C5077414-76	57958	C-60	18
C5077414-320	57958	C-60	196	C5077414-77	57958	C-60	277
C5077414-321	57958	C-60	68	C5077414-78	57958	C-60	83
C5077414-322	57958	C-60	326	C5077414-79	57958	C-60	212
C5077414-323	57958	C-60	133	C5077414-8	57958	C-60	71
C5077414-324	57958	C-60	262	C5077414-80	57958	C-60	148

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PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
C5077414-81	57958	C-60	19	C5077430-112	57958	C-59	78
C5077414-82	57958	C-60	278	C5077430-113	57958	C-59	152
C5077414-83	57958	C-60	84	C5077430-114	57958	C-59	116
C5077414-84	57958	C-60	213	C5077430-115	57958	C-59	79
C5077414-85	57958	C-60	149	C5077430-116	57958	C-59	153
C5077414-86	57958	C-60	20	C5077430-117	57958	C-59	117
C5077414-87	57958	C-60	279	C5077430-118	57958	C-59	80
C5077414-88	57958	C-60	85	C5077430-119	57958	C-59	154
C5077414-89	57958	C-60	214	C5077430-12	57958	C-59	85
C5077414-9	57958	C-60	200	C5077430-120	57958	C-59	118
C5077414-90	57958	C-60	150	C5077430-121	57958	C-59	14
C5077414-91	57958	C-60	21	C5077430-122	57958	C-59	8
C5077414-92	57958	C-60	280	C5077430-123	57958	C-59	23
C5077414-93	57958	C-60	86	C5077430-124	57958	C-59	196
C5077414-94	57958	C-60	215	C5077430-125	57958	C-59	199
C5077414-95	57958	C-60	151	C5077430-126	57958	C-59	201
C5077414-96	57958	C-60	22	C5077430-127	57958	C-59	193
C5077414-97	57958	C-60	281	C5077430-128	57958	C-59	195
C5077414-98	57958	C-60	87	C5077430-129	57958	C-59	194
C5077414-99	57958	C-60	216	C5077430-13	57958	C-59	49
C5077421-1	57958	BULK	39	C5077430-130	57958	C-59	197
C5077428-1	57958	C-60	56	C5077430-132	57958	C-59	200
C5077428-10	57958	C-34	2	C5077430-133	57958	C-59	169
C5077428-11	57958	C-34	6	C5077430-134	57958	C-59	167
C5077428-12	57958	C-34	4	C5077430-135	57958	C-59	168
C5077428-2	57958	C-60	250	C5077430-136	57958	C-59	9
C5077428-3	57958	C-60	121	C5077430-137	57958	C-59	15
C5077428-4	57958	C-34	3	C5077430-138	57958	C-59	24
C5077428-5	57958	C-34	7	C5077430-139	57958	C-59	16
C5077428-6	57958	C-34	5	C5077430-14	57958	C-59	123
C5077428-7	57958	C-33	2	C5077430-140	57958	C-59	10
C5077428-8	57958	C-33	4	C5077430-141	57958	C-59	25
C5077428-9	57958	C-33	3	C5077430-142	57958	C-59	81
C5077429-1	57958	C-49	5	C5077430-143	57958	C-59	155
C5077429-2	57958	C-49	1	C5077430-144	57958	C-59	118
C5077429-3	57958	C-49	3	C5077430-145	57958	C-59	176
C5077429-4	57958	C-49	6	C5077430-146	57958	C-59	180
C5077429-5	57958	C-49	2	C5077430-147	57958	C-59	178
C5077429-6	57958	C-49	4	C5077430-149	57958	C-59	177
C5077430-1	57958	C-59	45	C5077430-15	57958	C-59	86
C5077430-10	57958	C-59	48	C5077430-150	57958	C-59	181
C5077430-100	57958	C-59	74	C5077430-16	57958	C-59	50
C5077430-101	57958	C-59	148	C5077430-169	57958	C-61	2
C5077430-102	57958	C-59	111	C5077430-17	57958	C-59	124
C5077430-103	57958	C-59	75	C5077430-170	57958	C-61	5
C5077430-104	57958	C-59	149	C5077430-171	57958	C-61	4
C5077430-105	57958	C-59	112	C5077430-172	57958	C-61	12
C5077430-106	57958	C-59	76	C5077430-173	57958	C-61	10
C5077430-107	57958	C-59	150	C5077430-174	57958	C-61	11
C5077430-108	57958	C-59	113	C5077430-178	57958	C-62	13
C5077430-109	57958	C-59	163	C5077430-179	57958	C-62	22
C5077430-11	57958	C-59	122	C5077430-18	57958	C-59	87
C5077430-110	57958	C-59	164	C5077430-180	57958	C-62	18
C5077430-111	57958	C-59	166	C5077430-181	57958	C-62	14

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PART NUMBER	FSCM	FIG. NO.	ITEM NO.
C5077430-182	57958	C-62	23
C5077430-183	57958	C-62	19
C5077430-184	57958	C-62	15
C5077430-185	57958	C-62	24
C5077430-186	57958	C-62	20
C5077430-187	57958	C-62	36
C5077430-188	57958	C-62	32
C5077430-189	57958	C-62	37
C5077430-19	57958	C-59	51
C5077430-190	57958	C-62	16
C5077430-191	57958	C-62	25
C5077430-192	57958	C-62	21
C5077430-193	57958	C-63	2
C5077430-195	57958	C-63	4
C5077430-198	57958	C-35	3
C5077430-199	57958	C-35	8
C5077430-2	57958	C-59	119
C5077430-20	57958	C-59	125
C5077430-200	57958	C-35	6
C5077430-201	57958	C-35	4
C5077430-202	57958	C-35	9
C5077430-204	57958	C-36	2
C5077430-205	57958	C-36	5
C5077430-209	57958	C-37	3
C5077430-21	57958	C-59	88
C5077430-210	57958	C-37	10
C5077430-211	57958	C-37	7
C5077430-212	57958	C-37	4
C5077430-213	57958	C-37	11
C5077430-214	57958	C-37	8
C5077430-215	57958	C-37	5
C5077430-216	57958	C-37	12
C5077430-217	57958	C-37	9
C5077430-218	57958	C-38	2
C5077430-219	57958	C-38	9
C5077430-22	57958	C-59	52
C5077430-220	57958	C-38	6
C5077430-221	57958	C-38	3
C5077430-222	57958	C-38	10
C5077430-223	57958	C-38	7
C5077430-224	57958	C-38	5
C5077430-225	57958	C-38	11
C5077430-226	57958	C-38	8
C5077430-227	57958	C-41	4
C5077430-228	57958	C-41	11
C5077430-229	57958	C-41	8
C5077430-23	57958	C-59	126
C5077430-230	57958	C-41	5
C5077430-231	57958	C-41	12
C5077430-232	57958	C-41	9
C5077430-233	57958	C-42	3
C5077430-234	57958	C-42	8
C5077430-235	57958	C-42	6
C5077430-236	57958	C-42	4
C5077430-237	57958	C-42	9
C5077430-238	57958	C-42	7
C5077430-239	57958	C-43	4
C5077430-24	57958	C-59	89
C5077430-240	57958	C-43	9
C5077430-241	57958	C-43	7
C5077430-242	57958	C-44	9
C5077430-243	57958	C-44	2
C5077430-244	57958	C-44	6
C5077430-245	57958	C-44	10
C5077430-246	57958	C-44	3
C5077430-247	57958	C-44	7
C5077430-248	57958	C-44	11
C5077430-249	57958	C-44	4
C5077430-25	57958	C-59	187
C5077430-250	57958	C-44	8
C5077430-26	57958	C-59	188
C5077430-261	57958	C-59	77
C5077430-262	57958	C-59	151
C5077430-263	57958	C-59	114
C5077430-264	57958	C-59	206
C5077430-265	57958	C-59	208
C5077430-266	57958	C-59	212
C5077430-267	57958	C-59	190
C5077430-268	57958	C-59	192
C5077430-269	57958	C-59	191
C5077430-27	57958	C-59	189
C5077430-270	57958	C-59	205
C5077430-271	57958	C-59	207
C5077430-272	57958	C-59	211
C5077430-28	57958	C-59	53
C5077430-29	57958	C-59	127
C5077430-291	57958	C-40	4
C5077430-292	57958	C-40	15
C5077430-293	57958	C-40	10
C5077430-294	57958	C-40	5
C5077430-295	57958	C-40	16
C5077430-296	57958	C-40	11
C5077430-297	57958	C-41	6
C5077430-298	57958	C-41	13
C5077430-299	57958	C-41	10
C5077430-3	57958	C-59	82
C5077430-30	57958	C-59	90
C5077430-300	57958	C-40	3
C5077430-301	57958	C-40	14
C5077430-302	57958	C-40	9
C5077430-303	57958	C-40	6
C5077430-304	57958	C-40	17
C5077430-305	57958	C-40	12
C5077430-306	57958	C-40	1
C5077430-307	57958	C-40	2
C5077430-308	57958	C-40	13
C5077430-309	57958	C-43	3
C5077430-31	57958	C-59	54

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PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
C5077430-310	57958	C-43	8	C5077430-382	57958	C-53	1
C5077430-311	57958	C-43	6	C5077430-383	57958	C-53	8
C5077430-32	57958	C-59	128	C5077430-384	57958	C-53	4
C5077430-321	57958	C-39	2	C5077430-385	57958	C-53	7
C5077430-322	57958	C-39	5	C5077430-386	57958	C-53	3
C5077430-323	57958	C-39	4	C5077430-387	57958	C-55	10
C5077430-33	57958	C-59	91	C5077430-388	57958	C-55	11
C5077430-333	57958	C-45	1	C5077430-389	57958	C-55	4
C5077430-334	57958	C-45	8	C5077430-39	57958	C-59	93
C5077430-335	57958	C-45	5	C5077430-390	57958	C-56	8
C5077430-336	57958	C-45	2	C5077430-391	57958	C-56	7
C5077430-337	57958	C-45	9				
C5077430-338	57958	C-45	6	C5077430-394	57958	C-32	5
C5077430-339	57958	C-45	3	C5077430-395	57958	C-32	3
C5077430-34	57958	C-59	55	C5077430-396	57958	C-32	2
C5077430-340	57958	C-45	10	C5077430-397	57958	C-32	4
C5077430-341	57958	C-45	7	C5077430-398	57958	C-51	7
C5077430-342	57958	C-46	1	C5077430-399	57958	C-51	5
C5077430-343	57958	C-46	8	C5077430-4	57958	C-59	46
C5077430-344	57958	C-46	5	C5077430-40	57958	C-59	57
C5077430-345	57958	C-46	2	C5077430-400	57958	C-51	2
C5077430-346	57958	C-46	9	C5077430-401	57958	C-51	6
C5077430-347	57958	C-46	6	C5077430-402	57958	C-52	11
C5077430-348	57958	C-46	10	C5077430-403	57958	C-52	9
C5077430-349	57958	C-46	3	C5077430-404	57958	C-52	2
C5077430-35	57958	C-59	129	C5077430-405	57958	C-52	8
C5077430-350	57958	C-46	7	C5077430-406	57958	C-52	3
C5077430-351	57958	C-47	11	C5077430-407	57958	C-52	7
C5077430-352	57958	C-47	12	C5077430-408	57958	C-52	5
C5077430-353	57958	C-47	13	C5077430-409	57958	C-52	6
C5077430-357	57958	C-47	[illegible]	C5077430-41	57958	C-59	131
C5077430-358	57958	C-47	8	C5077430-410	57958	C-52	10
C5077430-359	57958	C-47	5	C5077430-411	57958	C-35	7
C5077430-36	57958	C-59	92	C5077430-414	57958	C-57	4
C5077430-360	57958	C-47	2	C5077430-415	57958	C-57	2
C5077430-361	57958	C-47	9	C5077430-416	57958	C-57	5
C5077430-362	57958	C-47	6	C5077430-42	57958	C-59	94
C5077430-363	57958	C-47	3	C5077430-43	57958	C-59	58
C5077430-364	57958	C-47	10	C5077430-44	57958	C-59	132
C5077430-365	57958	C-47	7	C5077430-45	57958	C-59	95
C5077430-369	57958	C-54	1	C5077430-46	57958	C-59	59
C5077430-37	57958	C-59	56	C5077430-47	57958	C-59	133
C5077430-370	57958	C-54	4	C5077430-48	57958	C-59	96
C5077430-371	57958	C-54	3	C5077430-49	57958	C-59	60
C5077430-373	57958	C-48	2	C5077430-5	57958	C-59	120
C5077430-374	57958	C-48	6	C5077430-50	57958	C-59	134
C5077430-375	52958	C-48	5	C5077430-51	57958	C-59	97
C5077430-376	57958	C-50	2	C5077430-52	37958	C-59	61
C5077430-377	57958	C-50	7	C5077430-53	57958	C-59	135
C5077430-378	57958	C-50	5	C5077430-54	57958	C-59	98
C5077430-379	57958	C-50	3	C5077430-55	57958	C-59	62
C5077430-38	57958	C-59	130	C5077430-56	57958	C-59	136
C5077430-380	57958	C-50	8	C5077430-57	57958	C-59	99
C5077430-381	57958	C-50	6	C5077430-58	57958	C-59	63

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PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
C5077430-59	57958	C-59	137	C5077568-1	57958	C-26	18
C5077430-6	57958	C-59	83	C5077574-297	57958	C-5	25
C5077430-60	57958	C-59	100	C5077574-298	57958	C-5	26
C5077430-61	57958	C-59	64	C5077574-299	57958	C-5	27
C5077430-62	57958	C-59	138	C5077574-300	57958	C-5	28
C5077430-63	57958	C-59	101	C5077584-1	57958	C-5	13
C5077430-64	57958	C-59	6	C5077585-7	57958	C-48	4
C5077430-65	57958	C-59	12	C5077585-18	57958	C-39	8
C5077430-66	57958	C-59	21	C5077591-1	57958	C-3	41
C5077430-67	57958	C-59	13	C5114415-1	57958	C-15	47
C5077430-68	57958	C-59	7	C5114416-414	57958	C-15	27
C5077430-69	57958	C-59	22	C5114423-1	57958	C-15	21
C5077430-7	57958	C-59	67	C5114424-1	57958	C-15	25
C5077430-70	57958	C-59	65	C5114459-1	57958	C-18	24
C5077430-71	57958	C-59	139	C5121150	57958	C-15	45
C5077430-72	57958	C-59	102	C5140459-1	57958	C-28	24
C5077430-73	57958	C-59	66	C5140459-2	57958	C-28	25
C5077430-74	57958	C-59	140	EC22UC-9STX	81349	C-59	202
C5077430-75	57958	C-59	103	EC24UC-9STX	81349	BULK	27
C5077430-76	57958	C-59	67	ESR8018	37695	C-11	63
C5077430-77	57958	C-59	141	M189U	80058	C-12	47
C5077430-78	57958	C-59	104	J-3513/U	80058	C-12	4
C5077430-79	57958	C-59	68	JAN1N4115	81349	C-14	18
C5077430-8	57958	C-59	121	JAN1N4622	81349	C-4	1
C5077430-80	57958	C-59	142	KG45	80058	C-5	10
C5077430-81	57958	C-59	105	LS454U	81349	C-12	42
C5077430-82	57958	C-59	69	MAS1352C4-14	80205	C-15	66
C5077430-83	57958	C-59	143	MAS1352C4-14	80205	C-27	67
C5077430-84	57958	C-59	106	MIL122129-24AWG	81349	BULK	32
C5077430-85	57958	C-59	70	MILW83420-181/8	81349	BULK	31
C5077430-86	57958	C-59	144	MS15795-803	96906	C-14	3
C5077430-87	57958	C-59	107	MS15795-803	96906	C-17	6
C5077430-88	57958	C-59	71	MS15795-803	96906	C-20	8
C5077430-89	57958	C-59	145	MS15795-803	96906	C-27	115
C5077430-9	57958	C-59	84	MS15795-803	96906	C-3	12
C5077430-90	57958	C-59	108	MS15795-803	96906	C-31	3
C5077430-91	57958	C-59	72	MS15795-805	96906	C-12	38
C5077430-92	57958	C-59	146	MS15795-805	96906	C-15	109
C5077430-93	57958	C-59	109	MS15795-805	96906	C-21	4
C5077430-97	57958	C-59	73	MS15795-805	96906	C-23	6
C5077430-98	57958	C-59	147	MS15795-805	96906	C-24	15
C5077430-99	57958	C-59	110	MS15795-805	96906	C-25	14
C5077437-1	57958	C-12	37	MS15795-805	96906	C-26	15
C5077441-1	57958	C-22	15	MS15795-805	96906	C-27	74
C5077442-1	57958	C-15	43	MS15795-805	96906	C-3	9
C5077442-2	57958	C-15	41	MS15795-805	96906	C-31	8
C5077442-3	57958	C-15	73	MS15795-805	96906	C-4	11
C5077443-1	57958	C-15	24	MS15795-805	96906	C-7	2
				MS15795-805	96906	C-8	8
C5077453-410	57958	C-15	16	MS15795-805	96906	C-9	3
C5077562-1	57958	C-15	119	MS15795-807	96906	C-23	15
C5077564-1	57958	C-15	94	MS15795-807	96906	C-27	37
C5077568-1	57958	C-24	18	MS15795-807	96906	C-30	7
C5077568-1	57958	C-25	16	MS15795-807	96906	C-31	11
				MS15795-808	96906	C-10	84
				MS15795-808	96906	C-12	25
				MS15795-808	96906	C-13	8
				MS15795-808	96906	C-15	7
				MS15795-808	96906	C-18	26

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PART NUMBER	FSCM	FIG. NO.	ITEM NO.
MS15795-808	96906	C-19	2
MS15795-808	96906	C-2	13
MS15795-808	96906	C-22	10
MS15795-808	96906	C-27	4
MS15795-808	96906	C-28	7
MS15795-808	96906	C-29	7
MS15795-808	96906	C-30	9
MS15795-808	96906	C-5	4
MS15795-808	96906	C-9	7
MS15795-809	96906	C-28	13
MS15795-809	96906	C-29	27
MS15795-809	96906	C-30	41
MS15795-810	96906	C-10	107
MS15795-810	96906	C-12	22
MS15795-810	96906	C-15	15
MS15795-810	96906	C-15	19
MS15795-810	96906	C-18	12
MS15795-810	96906	C-19	6
MS15795-810	96906	C-24	9
MS15795-810	96906	C-25	8
MS15795-810	96906	C-26	9
MS15795-810	96906	C-27	30
MS15795-812	96906	C-18	3
MS15795-814	96906	C-15	35
MS15795-814	96906	C-18	10
MS15795-814	96906	C-27	109
MS15795-815	96906	C-15	30
MS15795-816	96906	C-23	10
MS15795-818	96906	C-18	17
MS16228-4C	96906	C-12	12
MS16228-4C	96906	C-15	20
MS16228-4C	96906	C-2	6
MS16228-4C	96906	C-27	29
MS16228-4C	96906	C-28	4
MS16228-4C	96906	C-29	1
MS16228-4C	96906	C-30	25
MS16995-82	96906	C-27	102
MS16995-83	96906	C-15	72
MS16996-11	96906	C-18	25
MS17344R28C11P	96906	C-62	26
MS17344R28C11S	96906	C-62	5
MS17349C288	96906	C-27	174
MS17350C28	96906	C-62	1
MS17830-4C	96906	C-18	28
MS17830-5C	96906	C-18	5
MS17830-8C	96906	C-18	18
MS20392-3C33	96906	C-27	122
MS20426AD6-6	96906	C-27	71
MS21044C3	96906	C-18	29
MS21044C3	96906	C-27	59
MS21301-91	96906	C-18	15
MS24665-132	96906	C-27	121
MS24693C12	96906	C-14	1
MS24693C26	96906	C-24	1
MS24693C26	96906	C-25	1
MS24693C26	96906	C-26	1
MS24693C27	96906	C-25	17
MS24693C27	96906	C-3	43
MS24693C273	96906	C-5	21
MS24693C273	96906	C-8	3
MS24693C274	96906	C-5	51
MS24693C274	96906	C-6	4
MS24693C275	96906	C-13	11
MS24693C276	96906	C-27	105
MS24693C28	96906	C-20	8
MS24693C28	96906	C-24	17
MS24693C28	96906	C-26	17
MS24693C29	96906	C-7	14
MS24693C50	96906	C-12	46
MS24693C50	96906	C-2	35
MS24693C51	96906	C-13	13
MS24693C51	81349	C-12	51
MS24693C51	96906	C-14	10
MS24693C51	96906	C-3	6
MS24693C7	96906	C-31	6
MS24693C339	96906	C-15	34
MS25036-101	96906	C-56	6
MS25036-102	96906	C-9	11
MS25036-103	96906	C-35	11
MS25036-107	96906	C-23	9
MS25036-112	96906	C-36	7
MS25036-112	96906	C-37	13
MS25036-115	96906	C-37	14
MS25036-112	96906	C-40	18
MS25036-149	96906	C-59	173
MS25036-153	96906	C-23	17
MS25036-154	96906	C-24	19
MS25036-154	96906	C-25	19
MS25036-154	96906	C-26	19
MS25036-154	96906	C-41	18
MS25036-157	96906	C-40	19
MS25036-157	96906	C-41	16
MS25042-18D	96906	C-56	4
MS25042-18D	96906	C-61	7
MS25042-18D	96906	C-62	2
MS25042-20D	96906	C-57	7
MS25042-20D	96906	C-59	184
MS25042-22D	96906	C-62	33
MS25042-28D	96906	C-62	3
MS25043-18D	96906	C-27	178
MS25043-20D	96906	C-27	180
MS25043-28D	96906	C-27	184
MS25281F3	96906	C-13	10
MS25281R4	96906	C-7	17
MS25281R7	96906	C-19	3
MS27183-12	96906	C-15	79
MS27183-12	96906	C-27	56
MS27183-12	96906	C-27	56
MS27183-12	96906	C-27	145
MS27183-12	96906	C-3	4
MS27183-14	96906	C-1	24
MS27183-14	96906	C-12	16

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PART NUMBER	FSCM	FIG. NO.	ITEM NO.
MS27183-18	96906	C-1	19
MS27183-18	96906	C-10	120
MS27183-18	96906	C-27	141
MS27183-21	96906	C-27	17
MS27473T14F35S	96906	C-43	10
MS27473T16F35P	96906	C-43	2
MS27473T16F35P	96906	C-48	1
MS27473T16F35P	96906	C-59	41
MS27473T16F35PA	96906	C-43	1
MS27473T18B32S	96906	C-59	198
MS28778-8	96906	C-27	193
MS3057-16A	96906	C-61	14
MS3057-16A	96906	C-63	7
MS3100R18-1P	96906	C-59	1
MS3100R18-11P	96906	C-59	162
MS3100R20-29S	96906	C-59	2
MS3100R28-21S	96906	C-53	9
MS3101R28-9S	96906	C-61	1
MS3102R18-1P	96906	C-17	7
MS3106F10SL3S	96906	C-59	186
MS3105F18-15	96906	C-56	1
MS3106F18-1S	96906	C-62	6
MS3106F18-11P	96906	C-61	8
MS3106F18-11S	96906	C-61	13
MS3106F18-9P	96906	C-42	2
MS3106F18-9S	96906	C-42	12
MS3106F20-27P	96906	C-57	1
MS3106F20-27S	96906	C-57	6
MS3106F20-27S	96906	C-59	182
MS3106F20-29P	96906	C-59	174
MS3106F22-22P	96906	C-62	30
MS3106F22-22S	96906	C-62	34
MS3106F28-21P	96906	C-62	7
MS3106F28-21S	96906	C-62	27
MS3108R24-22S	96906	C-63	1
MS3108R28-9P	96906	C-61	6
MS3180-14C	96906	C-62	4
MS3338-6839	96906	C-3	17
MS3367-1-9	96906	C-15	48
MS3367-1-9	96906	C-32	1
MS3367-1-9	96906	C-35	5
MS3367-1-9	96906	C-36	6
MS3367-1-9	96906	C-37	2
MS3367-1-9	96906	C-38	5
MS3367-1-9	96906	C-39	3
MS3367-1-9	96906	C-40	7
MS3367-1-9	96906	C-41	7
MS3367-1-9	96906	C-42	5
MS3367-1-9	96906	C-43	5
MS3367-1-9	96906	C-44	5
MS3367-1-9	96906	C-45	4
MS3367-1-9	96906	C-46	4
MS3367-1-9	96906	C-47	4
MS3367-1-9	96906	C-48	3
MS3367-1-9	96906	C-50	4
MS3367-1-9	96906	C-51	3
MS3367-1-9	96906	C-52	3
MS3367-1-9	96906	C-53	2
MS3367-1-9	96906	C-54	2
MS3367-1-9	96906	C-55	5
MS3367-1-9	96906	C-56	3
MS3367-1-9	96906	C-57	3
MS3367-1-9	96906	C-59	5
MS3367-1-9	96906	C-59	11
MS3367-1-9	96906	C-61	3
MS3367-1-9	96906	C-62	17
MS3367-1-9	96906	C-63	3
MS3367-3-0	96906	C-15	60
MS3367-3-9	96906	C-15	49
MS3367-3-9	96906	C-15	58
MS3367-4-9	96906	C-15	50
MS3367-5-9	96906	C-15	51
MS3367-7-9	96906	C-15	52
MS3417-10N	96906	C-59	216
MS3420-3	96906	C-16	21
MS3420-16	96906	C-62	38
MS3437A13N	96906	C-59	215
MS3437C13C	96906	C-42	10
MS3456L18-9S	96906	C-41	1
MS3474L10-6P	96906	C-14	23
MS3474L10-6P	96906	C-59	203
MS3474L10-6S	96906	C-14	21
MS3474L10-6S	96906	C-9	13
MS3474L12-10P	96906	C-14	19
MS3474L12-10PX	96906	C-14	22
MS3474L12-10S	96906	C-42	11
MS3474L12-3P	96906	C-9	14
MS3474L14-19P	96906	C-4	6
MS3474L14-4P	96906	C-39	1
MS3474L14-5P	96906	C-59	204
MS3474L18-32P	96906	C-20	12
MS3476L10-6P	96906	C-41	2
MS3476L10-6P	96906	C-53	5
MS3476L10-6S	96906	C-59	160
MS3476L10-6SW	96906	C-59	159
MS3476L12-10P	96906	C-59	39
MS3476L12-10S	56906	C-44	12
MS3476L12-10S	96906	C-59	17
MS3476L12-10SW	96906	C-59	156
MS3476L12-10SX	96906	C-59	40
MS3476L12-10SZ	96906	C-59	157
MS3476L12-3S	96906	C-35	2
MS3476L12-3S	96906	C-38	14
MS3476L12-3SY	96906	C-35	1
MS3476L12-3SY	96906	C-41	17
MS3476L12-8S	96906	C-38	1
MS3476L12-8S	96906	C-59	29
MS3476L14-15S	96906	C-59	42
MS3476L14-18P	96906	C-59	32
MS3476L14-19P	96906	C-59	18
MS3476L14-19PX	96906	C-59	170
MS3476L14-19S	96906	C-52	1
MS3476L14-19S	96906	C-59	19

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PART NUMBER	FSCM	FIG. NO.	ITEM NO.
MS3476L14-4S	96906	C-36	1
MS3476L14-4S	96906	C-41	3
MS3476L14-5P	96906	C-62	8
MS3476L14-5S	96906	C-59	210
MS3476L14-5S	96906	C-62	28
MS3476L16-26P	96906	C-51	4
MS3476L16-26P	96906	C-59	26
MS3476L16-26S	96906	C-51	1
MS3476L16-26S	96906	C-59	44
MS3476L18-32P	96906	C-59	33
MS3476L18-32S	96906	C-55	1
MS3476L18-32S	96906	C-59	35
MS3476L20-39P	96906	C-59	31
MS3476L20-41P	96906	C-59	38
MS3476L20-41S	96906	C-59	36
MS3476L20-41SW	96906	C-59	28
MS3476L22-55P	96906	C-59	30
MS3476L22-55S	96906	C-59	27
MS35307-305	96906	C-27	25
MS35307-305	96906	C-28	1
MS35307-305	96906	C-29	4
MS35307-305	96906	C-30	26
MS35307-306	96906	C-28	15
MS35307-306	96906	C-29	22
MS35335-57	96906	C-20	6
MS35335-57	96906	C-3	29
MS35335-57	96906	C-31	5
MS35335-58	96906	C-9	12
MS35335-59	96906	C-14	16
MS35335-59	96906	C-23	16
MS35335-59	96906	C-31	10
MS35335-59	96906	C-7	11
MS35335-60	96906	C-15	8
MS35335-60	96906	C-5	31
MS35335-63	96906	C-1	25
MS35335-63	96906	C-27	11
MS35335-65	96906	C-1	17
MS35335-67	96906	C-27	139
MS35338-135	96906	C-14	8
MS35338-135	96906	C-17	9
MS35338-135	96906	C-20	16
MS35338-135	96906	C-27	114
MS35338-135	96906	C-3	31
MS35338-135	96906	C-31	2
MS35338-136	96906	C-12	39
MS35338-136	96906	C-15	110
MS35338-136	96906	C-21	3
MS35338-136	96906	C-23	21
MS35338-136	96906	C-24	14
MS35338-136	96906	C-25	13
MS35338-136	96906	C-26	14
MS35338-136	96906	C-27	73
MS35338-136	96906	C-3	10
MS35338-136	96906	C-6	13
MS35338-136	96906	C-7	3
MS35338-136	96906	C-8	9
MS35338-136	96906	C-9	4
MS35338-137	96906	C-12	50
MS35338-137	96906	C-14	13
MS35338-137	96906	C-19	12
MS35338-137	96906	C-23	18
MS35338-137	96906	C-27	38
MS35338-137	96906	C-5	15
MS35338-137	96906	C-7	12
MS35338-138	96906	C-10	79
MS35338-138	96906	C-12	26
MS35338-138	96906	C-13	7
MS35338-138	96906	C-15	10
MS35338-138	96906	C-19	15
MS35338-138	96906	C-2	12
MS35338-138	96906	C-22	11
MS35338-138	96906	C-27	3
MS35338-138	96906	C-28	6
MS35338-138	96906	C-29	6
MS35338-138	96906	C-29	24
MS35338-138	96906	C-30	10
MS35338-138	96906	C-5	3
MS35338-139	96906	C-10	108
MS35338-139	96906	C-12	21
MS35338-139	96906	C-15	14
MS35338-139	96906	C-18	13
MS35338-139	96906	C-19	4
MS35338-139	96906	C-24	8
MS35338-139	96906	C-25	7
MS35338-139	96906	C-26	8
MS35338-139	96906	C-27	24
MS35338-140	96906	C-15	80
MS35338-140	96906	C-27	55
MS35338-140	96906	C-27	147
MS35338-141	96906	C-1	23
MS35338-141	96906	C-12	17
MS35338-141	96906	C-15	31
MS35338-141	96906	C-18	9
MS35338-141	96906	C-27	92
MS35338-142	96906	C-27	95
MS35338-143	96906	C-1	20
MS35338-143	96906	C-10	121
MS35338-143	96906	C-27	142
MS35338-145	96906	C-27	7
MS35338-45	96906	C-3	3
MS35489-16	96906	C-55	6
MS35649-244	96906	C-14	9
MS35649-244	96906	C-17	10
MS35649-244	96906	C-20	11
MS35649-244	96906	C-27	113
MS35649-244	96906	C-3	32
MS35649-244	96906	C-31	1
MS35649-264	96906	C-12	40

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PART NUMBER	FSCM	FIG. NO.	ITEM NO.
MS35649-264	96906	C-23	20
MS35649-264	96906	C-24	13
MS35649-264	96906	C-25	12
MS35649-264	96906	C-26	13
MS35649-264	96906	C-3	11
MS35649-264	96906	C-7	16
MS35649-284	96906	C-12	51
MS35649-284	96906	C-14	14
MS35649-284	96906	C-23	19
MS35649-284	96906	C-31	9
MS35649-284	96906	C-7	13
MS35650-304	96906	C-13	6
MS35650-304	96906	C-19	5
MS35650-304	96906	C-22	12
MS35650-304	96906	C-27	153
MS35650-304	96906	C-28	5
MS35650-304	96906	C-29	5
MS35650-304	96906	C-30	11
MS35650-304	96906	C-5	2
MS35650-304	96906	C-5	17
MS35650-3254	96906	C-26	7
MS35650-3254	96906	C-25	6
MS35650-3254	96906	C-24	7
MS35782-2	96906	C-15	40
MS49005-4	96906	C-10	113
MS51500B6	96906	C-15	100
MS51504B6-8	96906	C-15	103
MS51504B8-8	96906	C-15	74
MS51512B8	96906	C-15	42
MS51520B8	96906	C-27	194
MS51522B6	96906	C-15	96
MS51531B16S	96906	C-15	26
MS51531B6S	96906	C-27	189
MS51531B8	96906	C-27	190
MS51533B6S	96906	C-27	188
MS51534B8-6	96906	C-27	191
MS51534B8-6S	96906	C-27	187
MS51819-7	96906	C-15	98
MS51860-56	96906	C-27	192
MS51953-121	96906	C-10	100
MS51953-25	96906	C-15	115
MS51957-14	96906	C-3	27
MS51957-15	96906	C-3	13
MS51957-17	96906	C-14	4
MS51957-17	96906	C-17	5
MS51957-17	96906	C-20	4
MS51957-17	96906	C-27	177
MS51957-17	96906	C-31	14
MS51957-18	96906	C-13	9
MS51957-18	96906	C-27	117
MS51957-18	96906	C-3	25
MS51957-28	96906	C-24	16
MS51957-28	96906	C-25	16
MS51957-28	96906	C-26	16
MS51957-28	96906	C-3	20
MS51957-28	96906	C-6	10

PART NUMBER	FSCM	FIG. NO.	ITEM NO.
MS51957-28	96906	C-7	4
MS51957-28	96906	C-8	10
MS51957-29	96906	C-12	41
MS51957-29	96906	C-21	2
MS51957-30	96906	C-15	121
MS51957-30	96906	C-23	5
MS51957-30	96906	C-27	72
MS51957-30	96906	C-31	7
MS51957-31	96906	C-27	186
MS51957-31	96906	C-7	6
MS51957-31	96906	C-9	5
MS51957-31	96906	C-27	85
MS51957-32	96906	C-15	111
MS51957-32	96906	C-27	79
MS51957-42	96906	C-6	7
MS51957-42	96906	C-8	5
MS51957-44	96906	C-23	14
MS51957-44	96906	C-27	47
MS51957-45	96906	C-30	8
MS51957-45	96906	C-5	14
MS51957-46	96906	C-30	20
MS51957-47	96906	C-27	39
MS51957-47	96906	C-7	9
MS51957-83	96906	C-27	81
MS51958-60	96906	C-9	8
MS51958-61	96906	C-10	82
MS51958-63	96906	C-15	101
MS51958-63	96906	C-2	11
MS51958-63	96906	C-22	9
MS51958-63	96906	C-27	2
MS51958-63	96906	C-29	25
MS51958-63	96906	C-5	29
MS51958-64	96906	C-10	78
MS51958-64	96906	C-15	83
MS51958-64	96906	C-2	28
MS51958-64	96906	C-22	24
MS51958-64	96906	C-30	5
MS51958-65	96906	C-10	81
MS51958-65	96906	C-27	33
MS51958-66	96906	C-18	32
MS51958-66	96906	C-27	60
MS51958-67	96906	C-15	9
MS51958-69	96906	C-12	27
MS51958-69	96906	C-15	22
MS51958-75	96906	C-15	44
MS51959-29	96906	C-23	4
MS51960-67	96906	C-29	9
MS51960-67	96906	C-30	13
MS51960-68	96906	C-28	9
MS51967-2	96906	C-19	7
MS51967-5	96906	C-27	54
MS51967-5	96906	C-3	2
MS51967-8	96906	C-12	18
MS51967-8	96906	C-15	75

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MS51967-8	96906	C-27	91
MS90556C32412PY	96906	C-59	175
MS90556C52412PW	96906	C-58	2
MS90557C32412SY	96906	C-59	183
MS90557C52412SW	96906	C-58	1
MS90563-4C	96906	C-59	214
MS90564-4C	96906	C-59	213
MS90725-10	96906	C-10	109
MS90725-10	96906	C-15	33
MS90725-10	96906	C-18	14
MS90725-111	96906	C-10	122
MS90725-120	96906	C-27	143
MS90725-15	96906	C-18	27
MS90725-162	96906	C-27	9
MS90725-168	96906	C-27	12
MS90725-36	96906	C-27	144
MS90725-38	96906	C-15	81
MS90725-42	96906	C-18	2
MS90725-5	96906	C-27	31
MS90725-58	96906	C-15	91
MS90725-6	96906	C-12	20
MS90725-6	96906	C-15	41
MS90725-6	96906	C-15	124
MS90725-60	96906	C-27	130
MS90725-62	96906	C-27	97
MS90725-64	96906	C-1	22
MS90725-64	96906	C-15	70
MS90725-64	96906	C-27	138
MS90725-65	96906	C-18	8
MS90725-66	96906	C-12	15
MS90725-67	96906	C-15	36
MS90725-7	96906	C-15	89
MS90725-8	96906	C-15	67
MS90725-8	96906	C-27	111
MS90725-97	96906	C-27	96
MS90726-58	96906	C-15	32
MS90726-58	96906	C-27	6
MS90727-113	96906	C-1	21
MS90728-38	96906	C-3	5
MS90728-6	96906	C-12	29
MS90728-6	96906	C-15	18
MS90728-6	96906	C-2	14
MS90728-6	96906	C-2	14
MS90728-8	96906	C-15	53
MT1029VRC	80058	C-12	6
MW10FMA17	81349	C-59	165
MW10MMD17	81349	C-53	6
M15733-61-0013	81349	C-14	11
M15733-61-0013	81349	C-20	14
M22759-9-14-9	81349	BULK	43
M22759-11-12-0	81349	BULK	21
M22759-11-12-5	81349	BULK	22
M22759-11-12-9	81349	BULK	11
M22759-11-16-0	81349	BULK	13
M22759-11-16-5	81349	BULK	14
M22759-11-16-9	81349	BULK	5

PART NUMBER	FSCM	FIG. NO.	ITEM NO.
M22759-11-20-0	81349	BULK	17
M22759-11-20-5	81349	BULK	25
M22759-11-20-9	81349	BULK	16
M22759-11-22-9	81349	BULK	24
M22759-11-24-0	81349	BULK	18
M22759-11-24-9	81349	BULK	19
M22759-9-12-9	81349	BULK	6
M22759-9-8-9	81349	BULK	10
M23053/5-103-9	81349	C-35	10
M23053/5-104-9	81349	BULK	42
M23053/5-103-9	81349	BULK	46
M23053/5-104-0	81349	BULK	45
M23053/5-105-0	81349	BULK	40
M23053/5-105-9	81349	BULK	51
M23053/5-109-0	81349	BULK	47
M23053-5-108-0	81349	BULK	2
M23053-5-110-0	81349	BULK	3
M24236-2BAHGGJ	81349	C-27	49
M24243-6A402H	81349	C-1	4
M27426-1103D	81349	C-27	63
M27500-20RC1S06	81349	BULK	52
M27500-22RC1S06	81349	BULK	7
M39012-01-0005	81349	C-33	1
M39012-01-0005	81349	C-34	8
M39012-01-0005	81349	C-50	1
M39012-01-0005	81349	C-60	3
M39012-05-0101	81349	C-33	5
M39012-26-0101	81349	C-60	1
M39029-1-12-12	81349	C-35	12
M39029-1-12-12	81349	C-36	8
M39029-1-14-16	81349	C-38	13
M39029-1-14-16	81349	C-39	6
M55339-04-00030	81349	C-27	149
M81511-06EB01P1	81349	C-59	158
M81714-3-AA1	81349	C-23	1
M81714-3-AA1	81349	C-24	21
M81714-3-AA1	81349	C-25	21
M81714-3-AA1	81349	C-26	21
M81714-3AB2	81349	C-23	2
M81714-5-3	81349	C-23	3
M81714/5-6	81349	C-24	20
M81714/5-6	81349	C-25	20
M81714/5-6	81349	C-26	20
M83723-60-118AC	81349	C-20	3
M83723-82G1831N	81349	C-20	2
M83723-87G1831N	81349	C-55	9
M85052/1-11	81349	C-15	104
M85052/1-12	81349	C-15	23
M85052/1-16	81349	C-27	154
M85052/1-6	81349	C-12	23
M85052/1-6	81349	C-27	80
M85052/1-6	81349	C-15	84
M85052/1-8	81349	C-10	80
M85052/1-9	81349	C-27	151
NAS1282B10	80205	C-55	3
NAS1351C3-10	80205	C-10	83
NAS1351C3-12	80205	C-18	1
NAS1351C3-10	80205	C-27	137
NAS1351C3-12	80205	C-10	114
NAS1351C3-16	80205	C-12	34

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PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
NAS1351C3-16	80205	C-13	12	U316U	80058	C-59	161
NAS1351C3-20	80205	C-10	97	U393U	80058	C-42	1
NAS1351C3-20	80205	C-18	14	0108-1-1124-1	57958	BULK	29
NAS1351C3-4	80205	C-10	94				
NAS1351C3-6	80205	C-15	88	0108-1-3063-1	57958	C-10	96
NAS1351C4-8	80205	C-15	117	0213-1-1167-1	57958	C-20	7
NAS1352-10-48P	80205	C-27	8	0213-1-1303-1	57958	C-27	152
NAS1352-5-16	80205	C-27	15	0213-2-1196-12	57958	C-9	6
NAS1352C08-20	80205	C-27	126	0213-1-1427-1	57958	BULK	49
NAS1352C08-8	80205	C-27	103	0224-1-2032-1	57958	C-15	62
NAS1352C4-12	80205	C-1	16	0224-1-2032-2	57958	C-15	59
NAS1352C4-12	80205	C-15	12[illegible]	0224-1-2033-1	57958	C-15	64
NAS1352C4-14	80205	C-12	35	0224-1-2033-2	57958	C-15	54
NAS1352C4-16	80205	C-19	16	0224-1-2034-1	57958	C-15	56
NAS1352C4-16	80205	C-27	122	0224-1-3079-1	57958	C-15	61
NAS1352C4-16	80205	C-30	16	0224-1-3080-1	57958	C-15	57
NAS1716C6T	80205	C-15	87	03213	53909	BULK	15
NAS1746-2	80205	C-20	15	03213	53909	C-36	3
NAS620C10	80205	C-30	6	03224	53909	BULK	28
NAS620C4	80205	C-3	26	5035394-1	57958	C-15	28
NAS620C416L	80205	C-1	15	5035601-1	57958	C-15	66
NAS620C416L	80205	C-15	13	5035807-5	57958	C-15	37
NAS620C416L	80205	C-2	7				
NAS620C416L	80205	C-27	23	5051425-37	57958	C-28	23
NAS620C416L	80205	C-28	2	5051425-38	57958	C-30	15
NAS620C416L	80205	C-29	2	5051425-39	57958	C-29	11
NAS620C416L	80205	C-30	24	5051444-1	57958	C-29	18
NAS620C6	80205	C-9	10	5051454-1	57958	C-30	23
NAS620C8	80205	C-12	49	5051460-1	57958	C-5	1
NAS620C8	80205	C-14	12	5051473-1	57958	C-27	16
NAS620C8	80205	C-5	16	5051481-1	57958	C-27	94
NAS620C8	80205	C-6	6	5051482-1	57958	C-28	16
NAS620C8	80205	C-7	10	5051482-2	57958	C-28	17
NAS620C8	80205	C-8	4	5051482-3	57958	C-29	16
NAS622CT1	80205	C-6	12	5051482-4	57958	C-29	17
NAS622CT1	80205	C-8	7	5051482-5	57958	C-30	37
NAS671C6	80205	C-9	9	5051482-6	57958	C-30	36
QQW343S24S1T	81348	BULK	48	5051483-1	57958	C-27	26
QQ3575F30T1375	81348	BULK	50	5051492-1	57958	C-27	19
RCR07G390JS	81349	C-4	2	5051501-1	57958	C-27	13
RT1167ANC164	80058	C-5	8	5051510-1	57958	C-1	5
RT524VRC46	80058	C-12	1	5051510-101	57958	C-15	82
SC-D-539468	80063	C-27	42	5051511-1	57958	C-27	1
SC-D-539491	80063	C-27	34	5051517-1	57958	C-15	97
SC-D-539439-1	80063	C-27	43	5051518-1	57958	C-10	115
SCC539428	80063	C-27	32	5051519-1	57958	C-15	6
SCC539451	80063	C-27	45	5051520-1	57958	C-10	45
SCC539463	80063	C-27	36	5051530-1	57958	C-10	12
SCD939460GRIV	80063	C-27	44	5051550-1	57958	C-10	72
SCD539482	80063	C-27	40	5051560-1	57958	C-10	23
SCD539483	80063	C-27	35	5051571-1	57958	C-21	1
SE26XF02	81349	C-14	15				
SE26XF03	81349	C-3	30	5051580-1	57958	C-2	25
SE26XF03	81349	C-31	4	5051583-1	57958	C-3	14
UG1412U	80058	C-60	4	5051586-1	57958	C-3	1
UG959BU	80058	C-50	10				
U229U	80058	C-59	209				

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NATIONAL STOCK NUMBER AND PART NUMBER INDEX

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
5051600-1	57958	C-2	24	5052270-1	57958	C-15	90
5051610-1	57958	C-11	42	5052290-1	57958	C-27	100
5051620-1	57958	C-11	19	5052306-178	57958	C-11	24
5051630-1	57958	C-11	40	5052344-1	57958	C-18	7
5051640-1	57958	C-11	46	5052345-1	57958	C-22	6
5051650-1	57958	C-11	68	5052348-1	57958	C-27	83
5051660-1	57958	C-2	40	5052352-1	57958	C-5	34
5051722-1	57958	C-1	13	5052353-1	57958	C-15	105
5051727-1	57958	C-15	17	5052354-1	57958	C-15	85
5051729-1	57958	C-27	140	5052355-1	57958	C-15	92
5051779-1	57958	C-10	98	5052356-1	57958	C-27	69
5051789-1	57958	C-2	8	5052356-107	57958	C-27	70
5051789-1	57958	C-29	21	5052373-1	57958	C-12	52
5051837-1	57958	C-5	32	5052377-1	57958	C-15	107
5051838-1	57958	C-8	6	5052378-1	57958	C-20	5
5051838-2	57958	C-6	5	5052379-1	57958	C-20	13
5051839-1	57958	C-15	76	5052379-2	57958	C-20	10
5051840-1	57958	C-15	69	5052416-1	57958	C-27	78
5051900-1	57958	C-23	8	5052417-1	57958	C-31	16
5051943-1	57958	C-23	7	5052418-1	57958	C-31	6
5051944-2	57958	C-3	24	5052419-1	57958	C-31	15
5051981-1	57958	C-18	19	5053100-1	57958	C-2	28
5052022-1	57958	C-18	1	5053128-1	57958	C-15	29
5052022-2	57958	C-18	6	5053197-1	57958	C-28	22
5052023-1	57958	C-18	23	5053198-1	57958	C-29	10
5052023-2	57958	C-18	21	5053199-1	57958	C-30	14
5052024-1	57958	C-18	11	5053205-105	57958	C-10	64
5052030-2	57958	C-1	1	5053205-106	57958	C-10	68
5052042-1	57958	C-18	4	5053205-107	57958	C-10	67
5052043-1	57958	C-18	20	5053205-108	57958	C-10	65
5052044-1	57958	C-18	33	5053205-108	57958	C-11	20
5052044-101	57958	C-18	30	5053205-115	57958	C-10	56
5052044-103	57958	C-18	31	5053205-116	57958	C-10	60
5052226-1	57958	C-1	25	5053205-117	57958	C-10	59
5052227-1	57958	C-10	102	5053205-118	57958	C-10	57
5052227-2	57958	C-10	101	5053205-118	57958	C-11	21
5052228-1	57958	C-10	105	5053205-122	57958	C-12	32
5052228-2	57958	C-10	106	5053205-125	57958	C-10	49
5052228-3	57958	C-10	111	5053205-126	57958	C-10	53
5052228-4	57958	C-10	99	5053205-127	57958	C-10	52
5052228-5	57958	C-10	119	5053205-128	57958	C-10	50
5052228-6	57958	C-10	118	5053205-128	57958	C-11	22
5052229-2	57958	C-10	93	5053205-151	57958	C-11	35
5052230-2	57958	C-10	123	5053205-160	57958	C-10	77
5052240-501	57958	C-5	9	5053205-160	57958	C-11	17
5052249-1	57958	C-6	2	5053205-165	57958	C-10	33
5052250-1	57958	C-15	1	5053205-169	57958	C-11	48
5052252-1	57958	C-7	7	5053205-173	57958	C-10	75
5052253-1	57958	C-7	5	5053205-173	57958	C-11	18
5052253-1	57958	C-9	2	5053205-177	57958	C-10	73
5052254-1	57958	C-6	9	5053205-185	57958	C-10	71
5052255-1	57958	C-7	8	5053205-185	57958	C-11	4
5052260-1	57958	C-15	2	5053205-189	57958	C-10	41
5052268-2	57958	C-10	90	5053205-195	57958	C-11	36

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PART NUMBER	FSCM	FIG. NO.	ITEM NO.
5053205-195	57958	C-15	106
5053205-196	57958	C-11	37
5053205-197	57958	C-11	34
5053205-200	57958	C-11	7
5053205-214	57958	C-11	47
5053205-214	57958	C-11	64
5053205-215	57958	C-11	60
5053205-221	57958	C-11	11
5053205-222	57958	C-11	10
5053205-224	57958	C-11	5
5053205-225	57958	C-11	16
5053205-225	57958	C-2	21
5053205-226	57958	C-11	8
5053205-226	57958	C-2	26
5053205-230	57958	C-11	39
5053205-230	57958	C-2	16
5053205-231	57958	C-12	31
5053205-231	57958	C-2	20
5053205-234	57958	C-2	31
5053205-236	57958	C-2	35
5053205-239	57958	C-11	44
5053205-239	57958	C-2	23
5053205-244	57958	C-27	182
5053205-247	57958	C-12	7
5053205-249	57958	C-12	10
5053205-250	57958	C-12	9
5053205-251	57958	C-12	11
5053205-252	57958	C-2	15
5053205-261	57958	C-5	22
5053205-262	57958	C-5	23
5053205-264	57958	C-5	12
5053205-272	57958	C-11	6
5053205-282	57958	C-5	46
5053205-283	57958	C-5	19
5053205-284	57958	C-12	43
5053205-285	57958	C-12	44
5053205-286	57958	C-12	45
5053205-289	57958	C-11	43
5053205-291	57958	C-12	28
5053205-401	57958	C-15	46
5053205-402	57958	C-1	11
5053206-100	57958	C-10	69
5053206-101	57958	C-10	63
5053206-103	57958	C-10	62
5053206-103	57958	C-11	28
5053206-104	57958	C-10	20
5053206-110	57958	C-10	60
5053206-111	57958	C-10	55
5053206-113	57958	C-10	54
5053206-113	57958	C-11	26
5053206-114	57958	C-10	32
5053206-120	57958	C-10	46
5053206-121	57958	C-10	48
5053206-123	57958	C-10	47
5053206-123	57958	C-11	26
5053206-124	57958	C-10	37
5053206-148	57958	C-12	3
5053206-162	57958	C-10	18
5053206-163	57958	C-10	19
5053206-164	57958	C-10	22
5053206-166	57958	C-10	35
5053206-166	57958	C-11	23
5053206-167	57958	C-10	34
5053206-167	57958	C-11	67
5053206-168	57958	C-10	17
5053206-168	57958	C-11	59
5053206-169	57958	C-10	21
5053206-174	57958	C-10	30
5053206-175	57958	C-10	28
5053206-176	57958	C-10	26
5053206-178	57958	C-10	31
5053206-179	57958	C-10	25
5053206-179	57958	C-11	66
5053206-180	57958	C-10	29
5053206-180	57958	C-11	61
5053206-181	57958	C-10	27
5053206-181	57958	C-11	49
5053206-186	57958	C-10	36
5053206-187	57958	C-10	43
5053206-188	57958	C-10	39
5053206-190	57958	C-10	42
5053206-190	57958	C-11	25
5053206-191	57958	C-10	40
5053206-191	57958	C-11	65
5053206-192	57958	C-10	44
5053206-192	57958	C-11	62
5053206-193	57958	C-10	38
5053206-193	57958	C-11	50
5053206-201	57958	C-11	32
5053206-202	57958	C-11	31
5053206-203	57958	C-11	30
5053206-204	57958	C-11	29
5053206-206	57958	C-11	56
5053206-207	57958	C-11	55
5053206-208	57958	C-11	54
5053206-209	57958	C-11	53
5053206-210	57958	C-11	58
5053206-211	57958	C-11	57
5053206-212	57958	C-11	52
5053206-213	57958	C-11	51
5053206-217	57958	C-11	15
5053206-218	57958	C-11	14
5053206-219	57958	C-11	13
5053206-220	57958	C-11	12
5053206-235	57958	C-2	37
5053206-246	57958	C-12	30
5053206-257	57958	C-5	33
5053206-258	57958	C-5	39

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PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
5053206-259	57958	C-5	38	5054388-2	57958	C-59	171
5053206-260	57958	C-2	1	5054398-1	57958	BULK	33
5053206-265	57958	C-2	38	5054398-1	57958	C-27	129
5053206-266	57958	C-2	39	5054406-1	57958	C-31	13
5053206-267	57958	C-5	11	5054419-1	57958	C-7	1
5053206-268	57958	C-2	33	5054432-1	57958	C-57	8
5053206-269	57958	C-2	36	5054432-1	57958	C-62	10
5053206-278	57958	C-5	50	5054432-14	57958	C-55	2
5053206-279	57958	C-5	49	5054432-13	57958	C-55	8
5053206-280	57958	C-5	48	5054432-15	57958	C-62	11
5053206-281	57958	C-5	47	5054432-17	57958	C-62	35
5053207-413	57958	C-1	18	5054432-2	57958	C-62	12
5053210-228	57958	C-27	98	5054432-1	57958	C-56	3
5053210-406	57958	C-1	9	5054432-3	57958	C-42	13
5053215-1	57958	C-3	33	5054432-3	57958	C-61	9
5053216-1	57958	C-3	42	5054432-4	57958	C-59	185
5053218-1	57958	C-3	40	5054432-7	57958	C-62	9
5053219-1	57958	C-3	22	5054448-1	57958	BULK	9
5053226-1	57958	C-30	40	5054451-1	57958	C-34	1
5053226-2	57958	C-30	39	5054451-1	57958	C-50	9
5053227-1	57958	C-30	19	5054451-1	57958	C-60	2
5053227-2	57958	C-30	18	5054452-1	57958	C-27	148
5053228-1	57958	C-30	2	5054461-1	57958	C-19	10
5053228-2	57958	C-30	1	5054462-1	57958	C-19	11
5053229-1	57958	C-30	3	5054463-2	57958	BULK	34
5053229-2	57958	C-30	4	5054463-4	57958	BULK	35
5053230-1	57958	C-30	17	5054463-6	57958	BULK	36
5053244-1	57958	C-2	2	5054466-1	57958	BULK	37
5053244-101	57958	C-4	3	5054467-3	57958	C-62	29
5053244-103	57958	C-4	5	5054468-3	57958	BULK	38
5053244-105	57958	C-4	4	5054471-1	57958	BULK	39
5053252-1	57958	C-28	14	5054471-3	57958	BULK	35
5053253-1	57958	C-28	12	5054471-4	57958	BULK	41
5053256-1	57958	C-15	112	5054471-5	57958	BULK	42
5053262-1	57958	C-2	5	5054471-2	57958	BULK	38
5053266-1	57958	C-12	19	5054478-1	57958	C-15	99
5053274-1	57958	C-22	1	5054492-1	57958	C-28	3
5053275-1	57958	C-8	1	5054492-1	57958	C-29	3
5053277-1	57958	C-22	25	5054492-1	57958	C-30	31
5053277-2	57958	C-22	40	5054519-1	57958	C-22	27
5053277-3	57958	C-22	32	5054519-2	57958	C-19	13
5053278-1	57958	C-29	26	5054519-2	57958	C-22	41
5053293-1	57958	C-19	9	5054519-3	57958	C-27	133
5053498-1	57958	C-2	32	5054520-2	57958	C-25	26
5054280-1	57958	C-10	88	5054521-1	57958	C-27	134
5054281-1	57958	C-15	122	5054525-1	57958	C-13	1
5054281-1	57958	C-27	75	5054526-101	57958	C-17	11
5054283-1	57958	C-15	38	5054526-26	57958	C-17	3
5054284-1	57958	C-4	7	5054526-27	57958	C-17	2
5054291-1	57958	C-15	116	5054527-1	57958	C-14	7
5054381-2	57958	C-15	93	5054534-1	57958	C-10	110
				5054544-1	57958	C-24	11
5054386-1	57958	C-5	5	5054544-1	57958	C-25	10
5054387-1	57958	C-5	6	5054544-1	57958	C-26	11
				5054544-1	57958	C-27	165
				5054544-3	57958	C-27	163

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PART NUMBER	FSCM	FIG. NO.	ITEM NO.
5054548-1	57958	C-10	104
5054599-1	57958	C-31	12
5054617-1	57958	C-15	118
5054619-1	57958	C-27	132
5054621-1	57958	C-27	44
5054630-1	57958	C-37	5
5054630-1	57958	C-41	14
5054630-1	57958	C-36	3
5054630-1	57958	C-37	6
5054630-3	57958	C-40	8
5054630-3	57958	C-35	13
5054630-3	57958	C-39	7
5054630-1	57958	C-38	12
5054630-1	57958	C-63	6
5054638	57958	BULK	44
5054644-1	57958	C-21	6
5054650-2	57958	C-1	2
5054670-2	57958	C-62	31
5054673-1	57958	C-17	1
5054677-1	57958	C-10	4
5054677-1	57958	C-11	5
5054677-1	57958	C-15	114
5054677-1	57958	C-2	4
5054677-1	57958	C-29	19
5054677-1	57958	C-30	21
5054678-1	57958	C-10	4
5054678-1	57958	C-11	2
5054678-1	57958	C-15	113
5054678-1	57958	C-2	3
5054678-1	57958	C-29	20
5054678-1	57958	C-30	22
5054681-1	57958	C-23	12
5054681-1	57958	C-27	169
5054681-2	57958	C-23	13
5054681-2	57958	C-27	166
5054681-2	57958	C-31	17
5054685-1	57958	C-27	116
5054693-1	57958	C-11	1
5054720-4	57958	C-27	197
5054720-8	57958	C-27	196
5054728-1	57958	C-28	11
5054730-1	57958	C-15	108
5054730-1	57958	C-21	5
5054732-1	57958	C-6	3
5054732-1	57958	C-8	2
5054770-1	57958	C-27	46
5054770-2	57958	C-27	53
5054775-5	57958	BULK	41
5054776-10	57958	C-27	185
5054776-11	57958	C-27	172
5054776-6	57958	C-17	8
5054776-6	57958	C-20	1
5054776-6	57958	C-27	175
5054776-7	57958	C-27	181
5054784-2	57958	C-36	4
5054799-1	57958	C-27	52
5054799-2	57958	C-27	51
5054808-1	57958	C-10	3
5054810-4	57958	C-55	7
5054830-1	57958	C-3	15
5054830-6	57958	C-3	19
5054833-1	57958	C-3	8
5054833-2	57958	C-3	7
5054833-3	57958	C-29	12
5054833-3	57958	C-30	32
5054833-4	57958	C-29	13
5054833-4	57958	C-30	33
5054833-5	57958	C-28	20
5054833-6	57958	C-28	21
5054860-7	57958	C-23	11
5054872-1	57958	C-37	1
5054878-1	57958	C-10	89
5054892-42	57958	C-3	18
5054892-83	57958	C-3	16
5054907-111	57958	C-3	34
5054907-112	57958	C-3	39
5054907-113	57958	C-3	35
5054907-114	57958	C-3	38
5054907-115	57958	C-3	36
5054907-116	57958	C-3	37
5054911-11	57958	C-27	195
5054911-12	57958	C-27	198
5054911-4	57958	C-10	91
5054926-1	57958	C-27	106
5054956-1	57958	C-27	84
5054960-1	57958	C-27	108
5054969-1	57958	C-27	146
5054969-2	57958	C-27	131
5054970-1	57958	C-5	18
5054971-1	57958	C-12	48
5054971-1	57958	C-5	43
5054974-1	57958	C-10	116
5054974-2	57958	C-44	1
5054994-3	57958	C-30	30
5054994-4	57958	C-30	29
5055273-1	57958	C-30	38
5055274-1	57958	C-15	12
5055275-1	57958	C-13	2
5055277-2	57958	C-24	2
5055277-2	57958	C-25	2
5055277-2	57958	C-26	2
5055281-1	57958	C-9	1
5055284-1	57958	C-24	5
5055284-1	57958	C-25	8
5055284-1	57958	C-26	5
5055285-1	57958	C-24	6
5055285-1	57958	C-25	5
5055285-1	57958	C-26	6

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PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
5055289-1	57958	C-24	4				
5055289-1	57958	C-25	4				
5055289-1	57958	C-26	4				
5055502-403	57958	C-12	11				
5055502-404	57958	C-12	5				
5055502-405	57958	C-12	6				
5055502-407	57958	C-1	10				
5055502-409	57958	C-15	3				
5055510-1	57958	C-5	40				
5055511-1	57958	C-2	9				
5055513-1	57958	C-25	3				
5055513-2	57958	C-26	3				
5055513-3	57958	C-24	3				
5055518-145	57958	C-27	99				
5055520-1	57958	C-24	12				
5055520-1	57958	C-25	15				
5055520-1	57958	C-26	12				
5055523-1	57958	C-19	8				
5055525-1	57958	C-27	112				
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APPENDIX D

EXPENDABLE SUPPLIES AND MATERIALS LIST

SECTION I. INTRODUCTION

D-1. **SCOPE.** This appendix lists expendable supplies and materials you will need to operate and maintain the Countermeasure Set. These items are authorized to you by CTA 50-970, Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic Items).

D-2. EXPLANATION OF COLUMNS

a. Column (1) - Item number. This column is a listing of the items contained in this appendix.

b. Column (2) - Level. This column identifies the lowest level of maintenance that requires the listed item.

C - Operator/Crew
O - Organizational Maintenance
F - Direct Support Maintenance
H - General Support Maintenance

c. Column (3) - National Stock Number. This is the National stock number assigned to the item; use it to request or requisition the item.

d. Column (4) - Description. Indicates the Federal item name and, if required, a description to identify the item.

e. Column (5) - Unit of Measure (U/M). Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr). If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

SECTION II. EXPENDABLE SUPPLIES AND MATERIALS LIST

(1) ITEM NO.	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) UNIT OF MEAS.
1	0	8020-00-257-0382	BRUSH	EA
2	0	8305-00-222-2423	LINT-FREE CLOTH	EA
3	0	5350-00-186-8854	SANDPAPER, FINE	SH
4	D	3439-00-194-9727	SOLDER	LB
5	0	6850-00-105-3084	TRICHLOROTRIFLUOROETHANE	CN

GLOSSARY

SECTION I. ABBREVIATIONS

ACU	Amplifier Control Unit
AMSU	Automatic Mode Switching Unit
BITE	Built In Test Equipment
BPM	Basic Power Module
CPU	Central Processing Unit
CU	Control Unit
DLC	Data Link Controller
DLM	Data Link Modem
DLR	Data Link Radio
GCP	Generator Control Panel
LMC	Limited Mode Coupler
LPA	Log Periodic Antenna
PRU	Power Regulation Unit
PSI	Pounds per Square Inch
RCDU	Receiver Control and Display Unit
RCV	Receive
RCVR	Receiver
RFCU	Radio Frequency Control Unit
RS	Receiver Set
RSPU	Receiver Signal Processing Unit
SICU	Signal Interface Control Unit
VAC	Volts Alternating Unit
VDC	Volts Direct Current
XMT	Transmit
XMTR	Transmitter

SECTION II. DEFINITION OF UNUSUAL TERMS

Split-lens	Lens divided into two or more segments each indicating a separate function.

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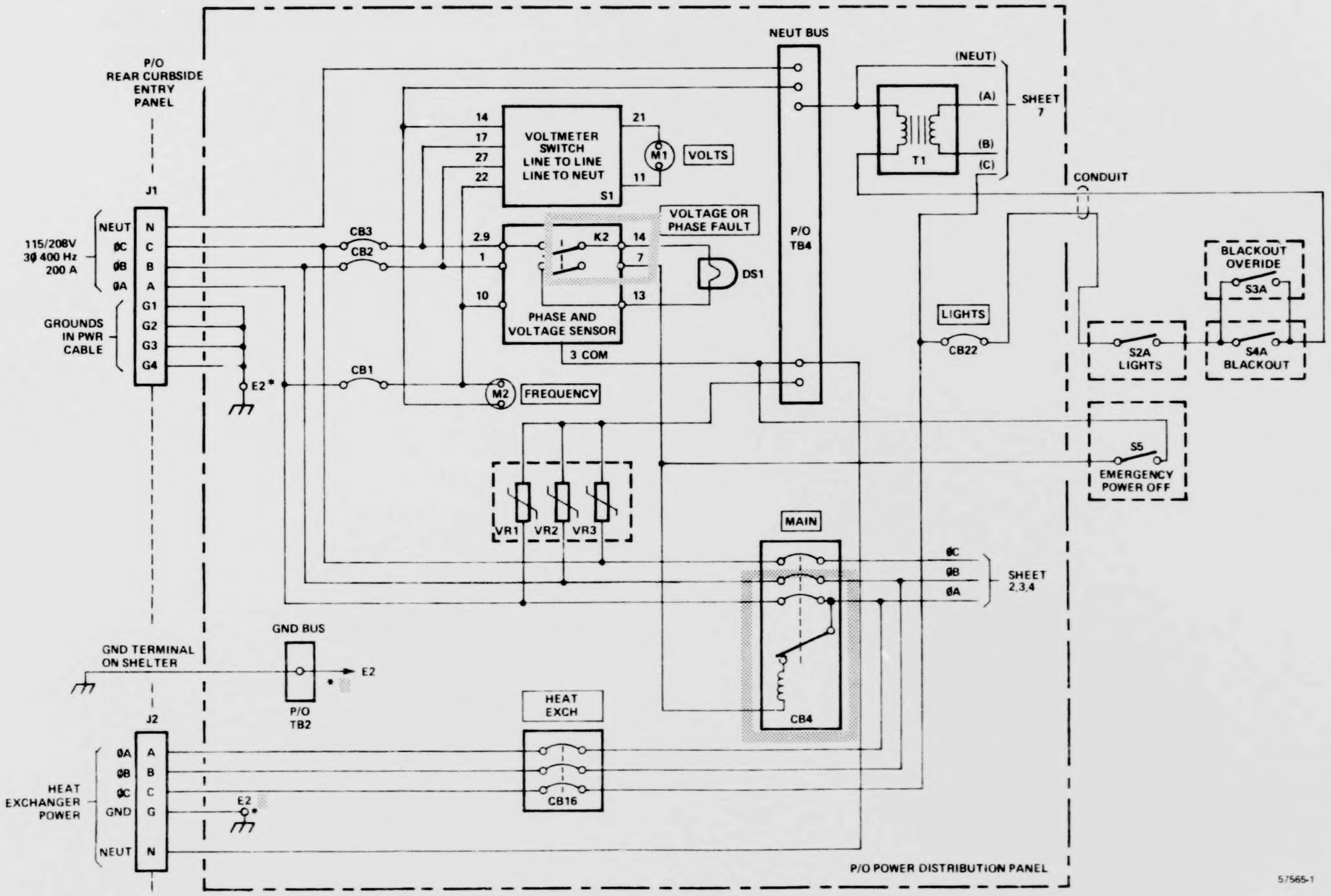

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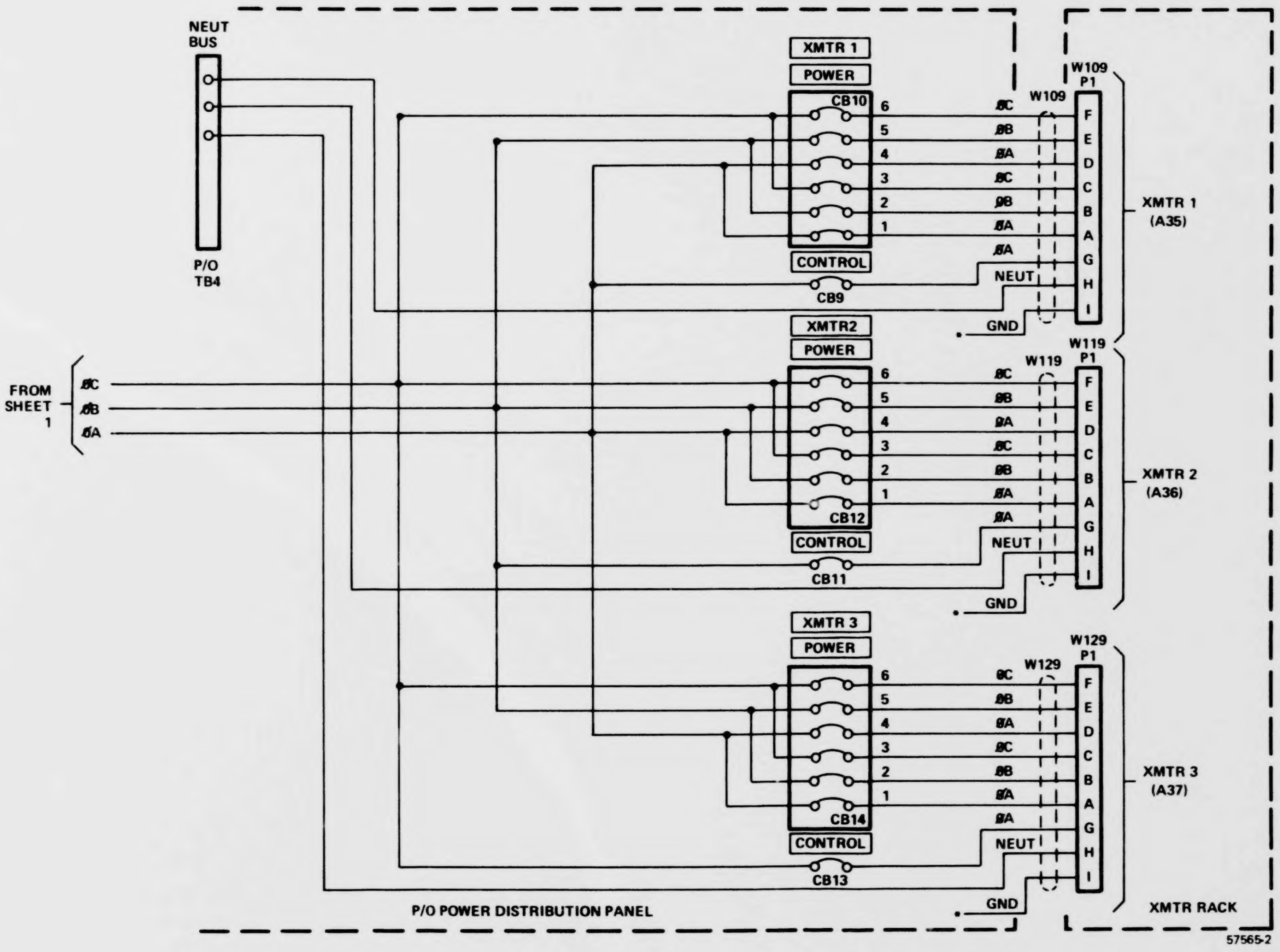

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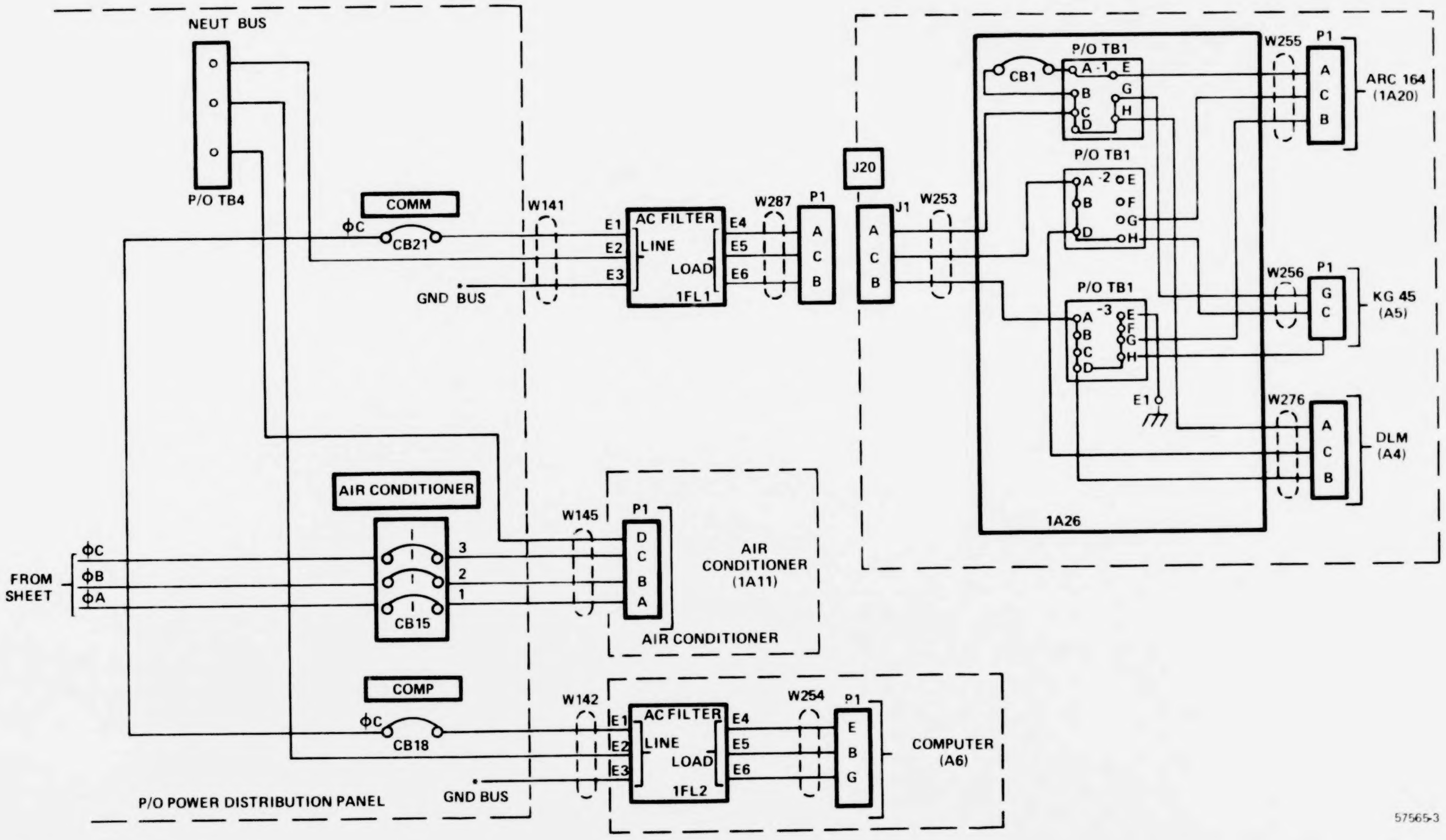

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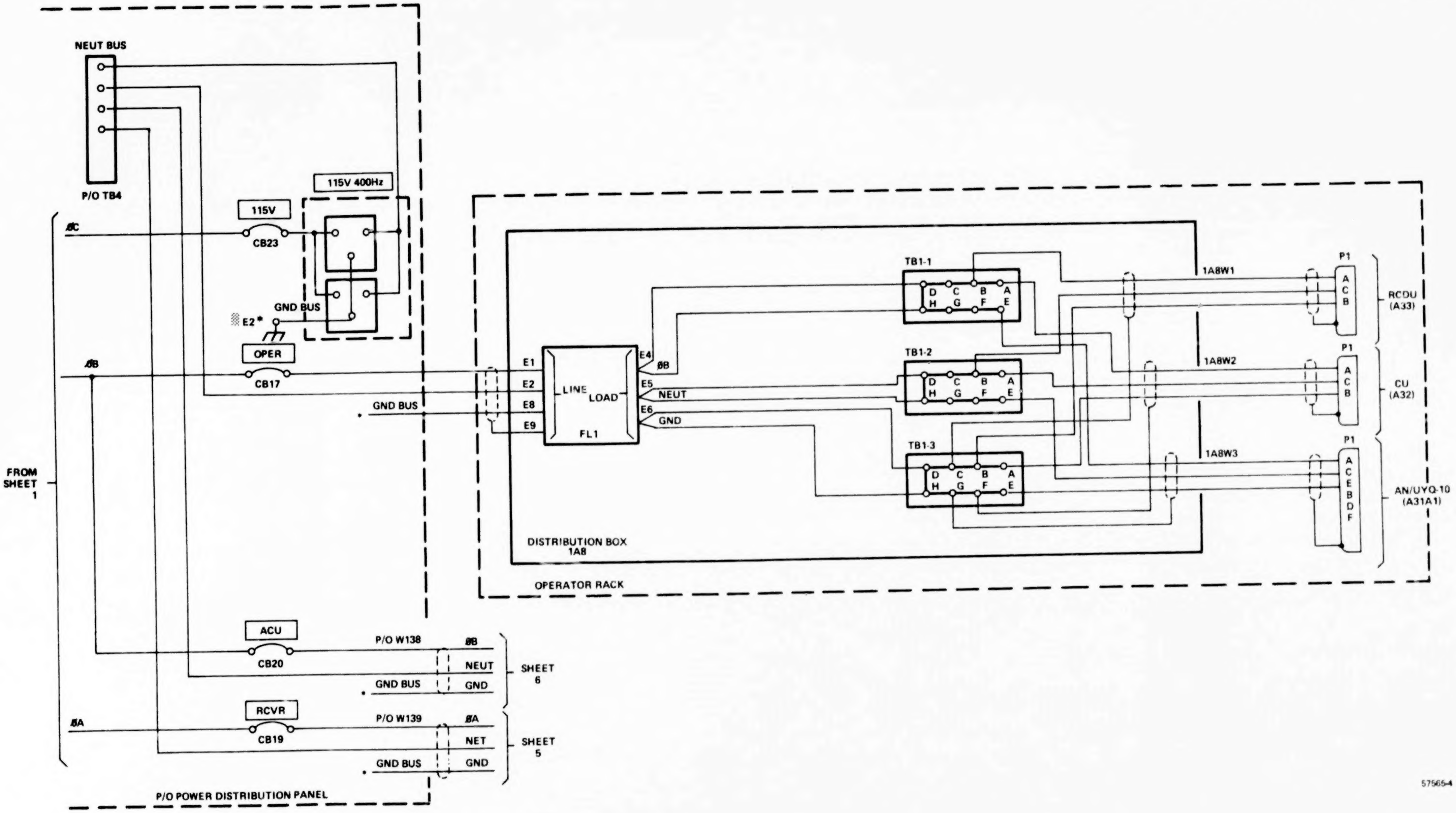

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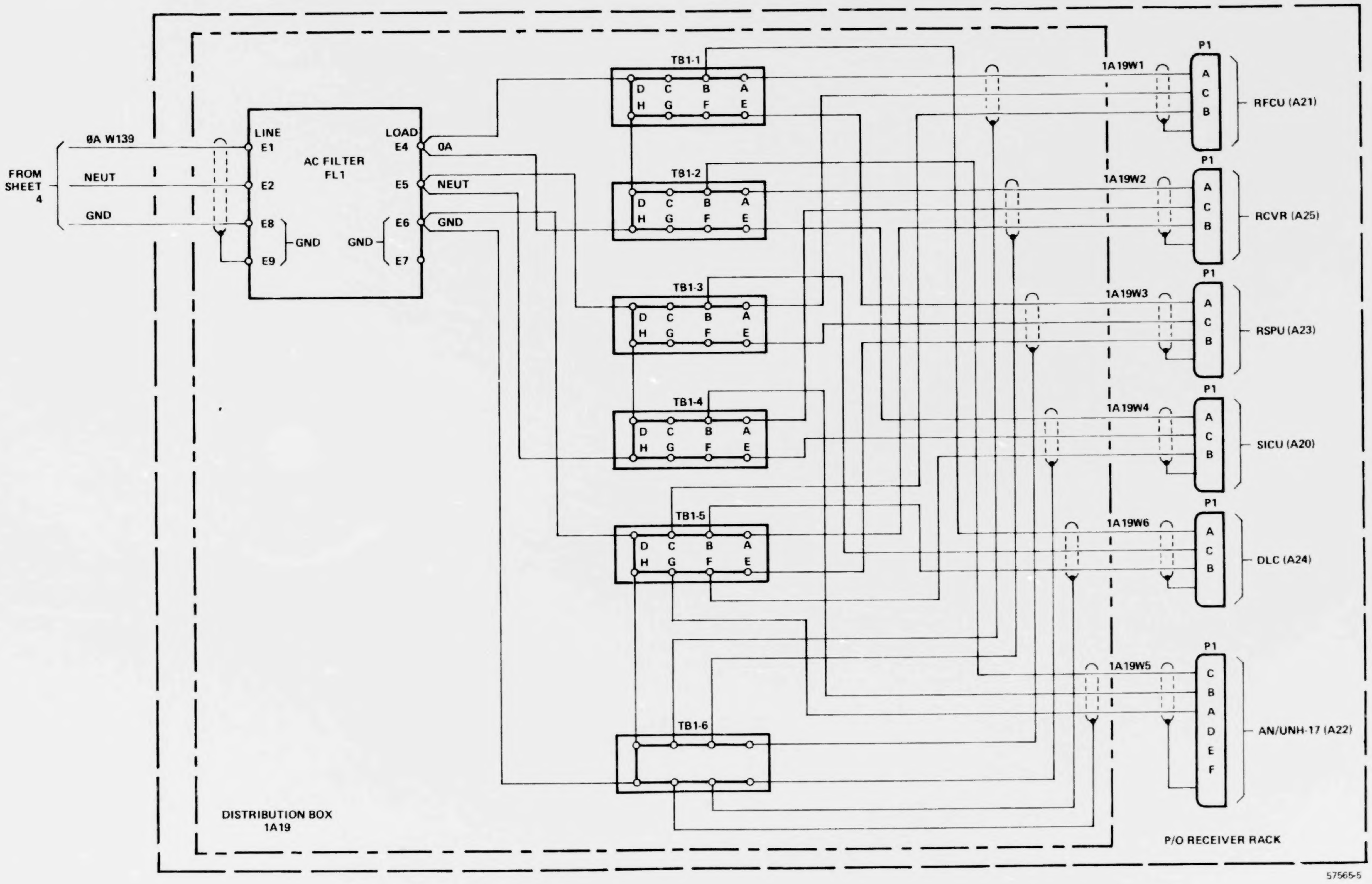

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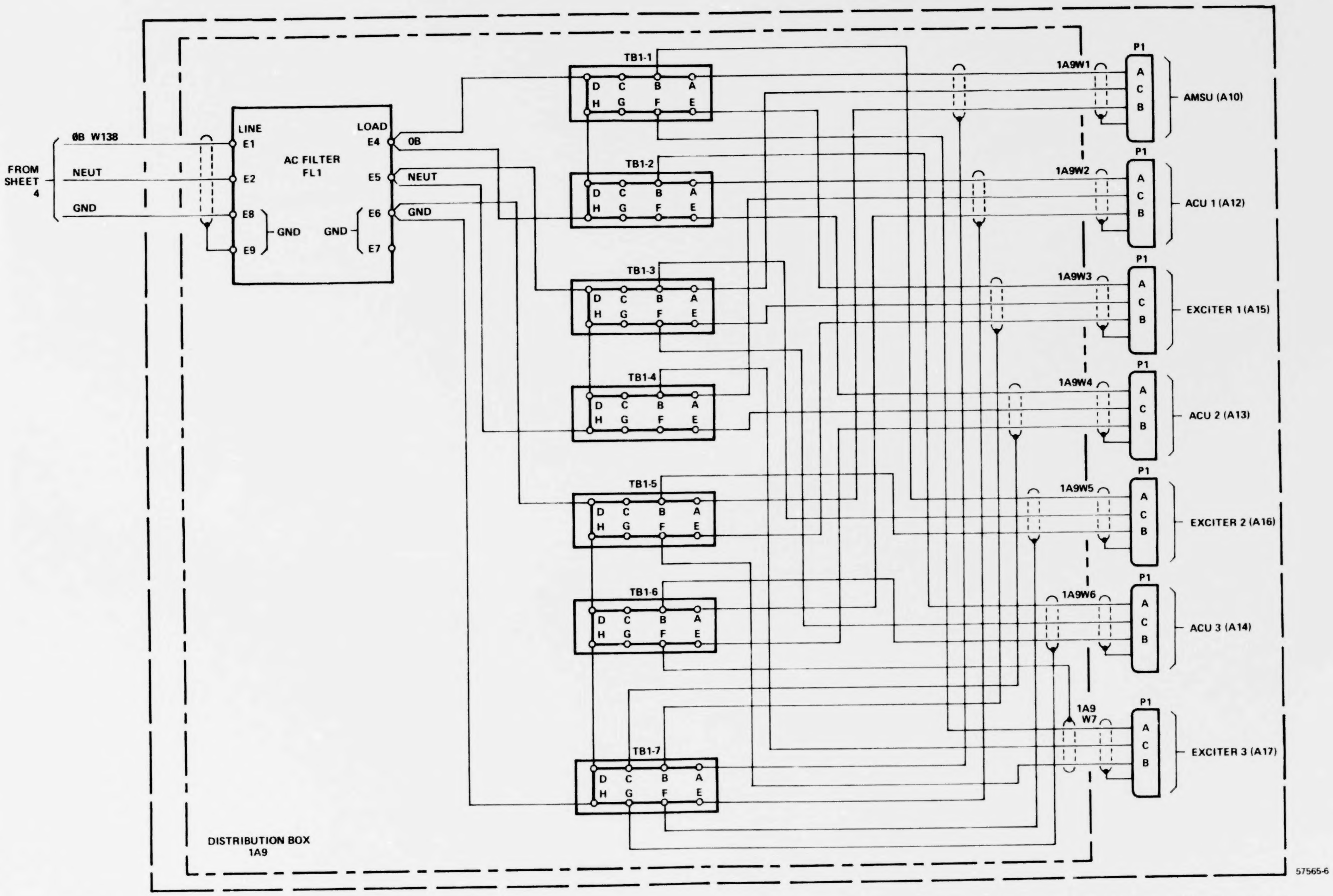

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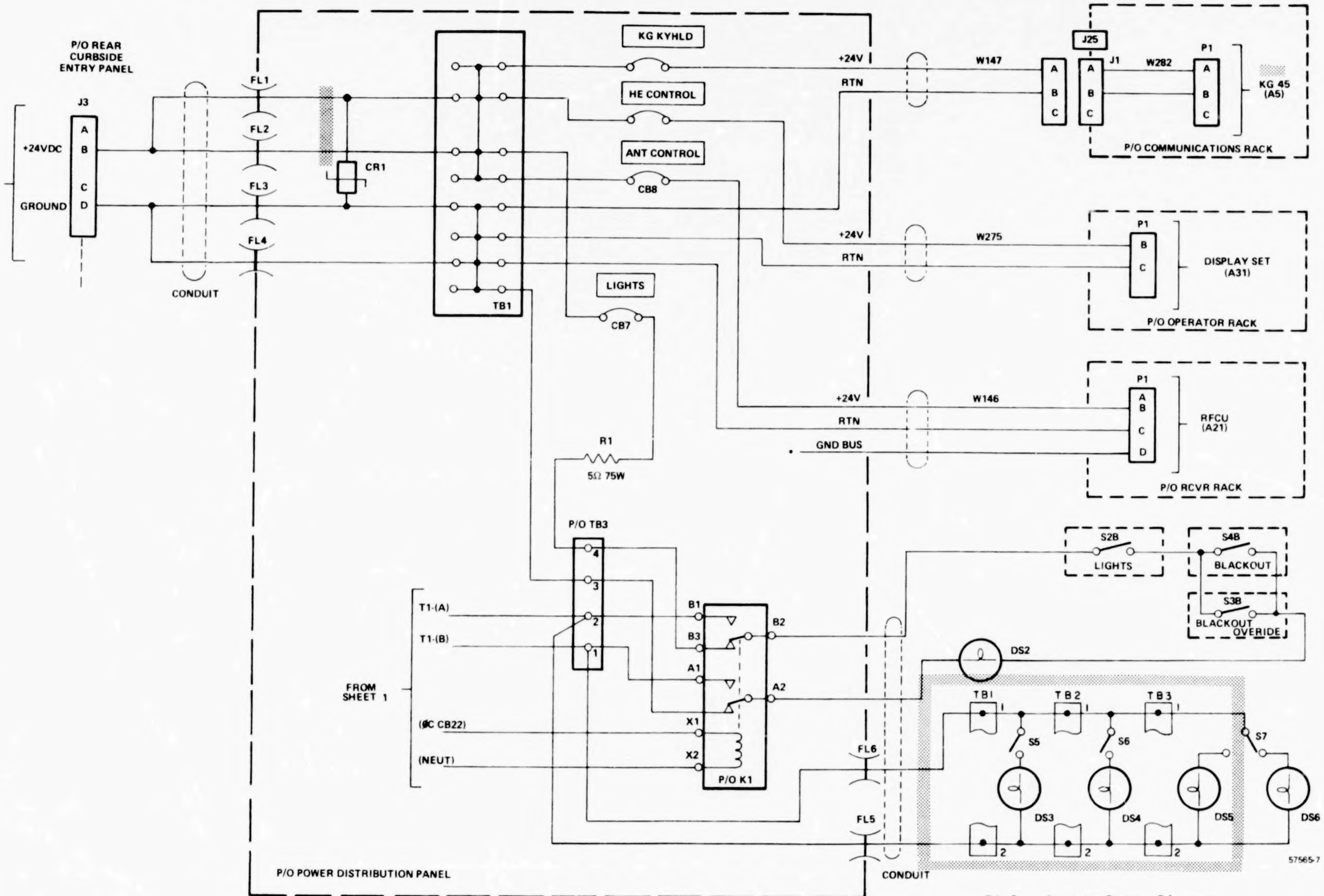

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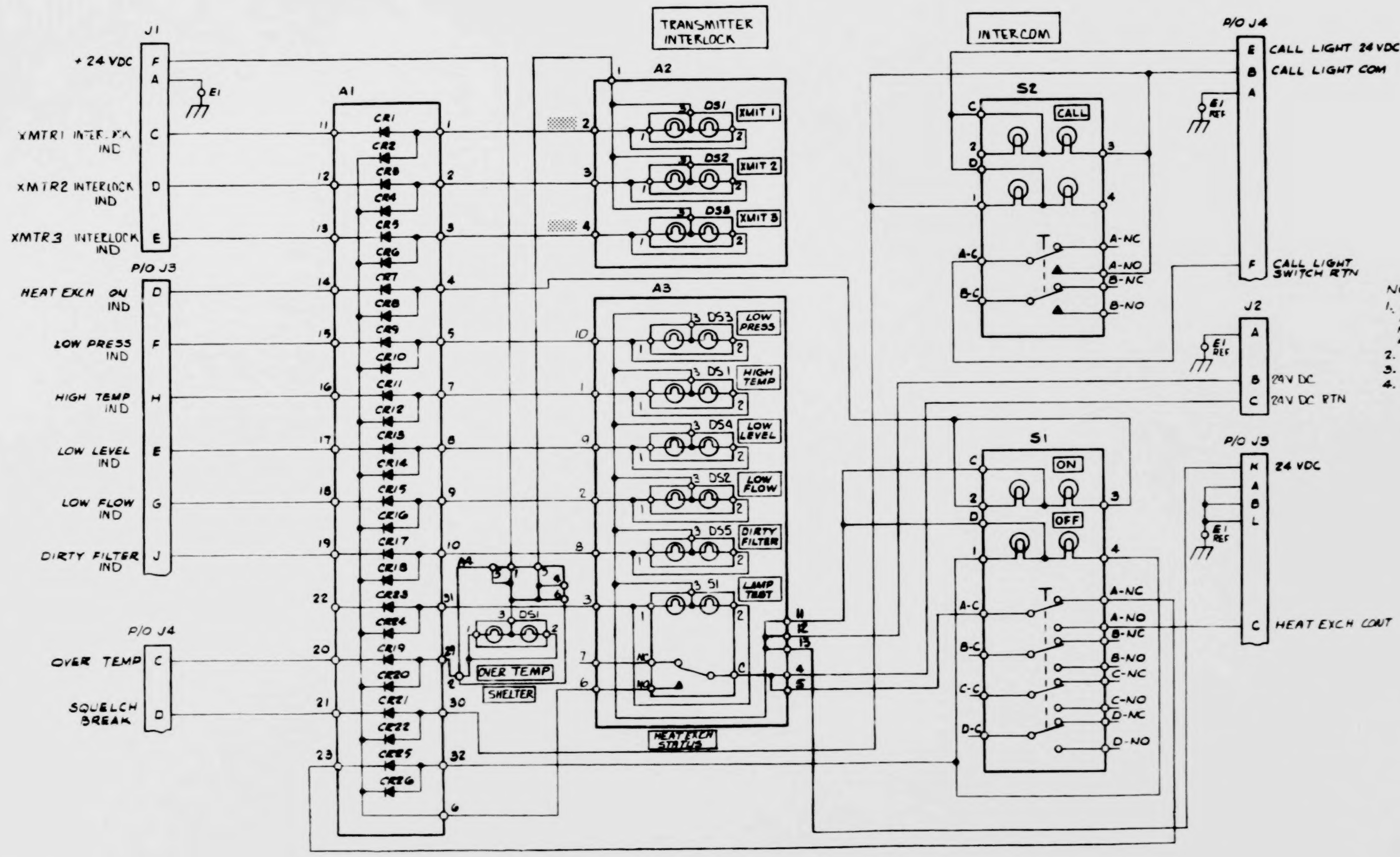

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2. P/O INDICATES PART OF.
3. UNUSED CONNECTOR PINS NOT SHOWN.
4. CR1 THRU CR26 ARE JAN1N4148.

FO-9. Display Set Schematic Diagram

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2. P/O INDICATES PART OF
3. BPM=DESIGNATES BASIC PWR MODULE (DWG 5051774)
4. ☐ DENOTES EQUIPMENT MARKING
5. ASTERISK (*) DENOTES: FOR WIRING SEE DWG. WL5077483 (PART OF ASSY 5055417)

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FO-10. System Interconnect Diagram (Sheet 1 of 8)

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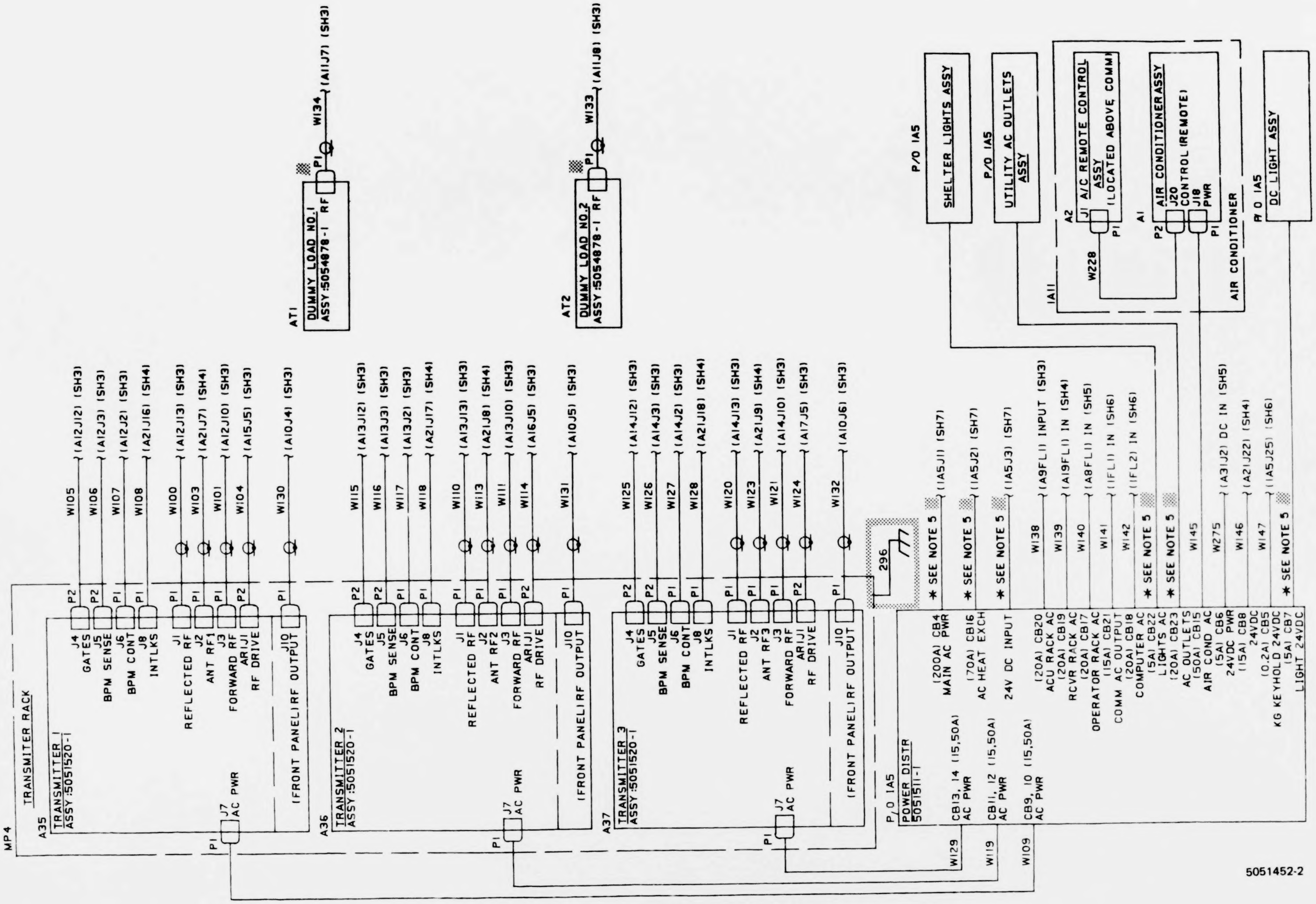

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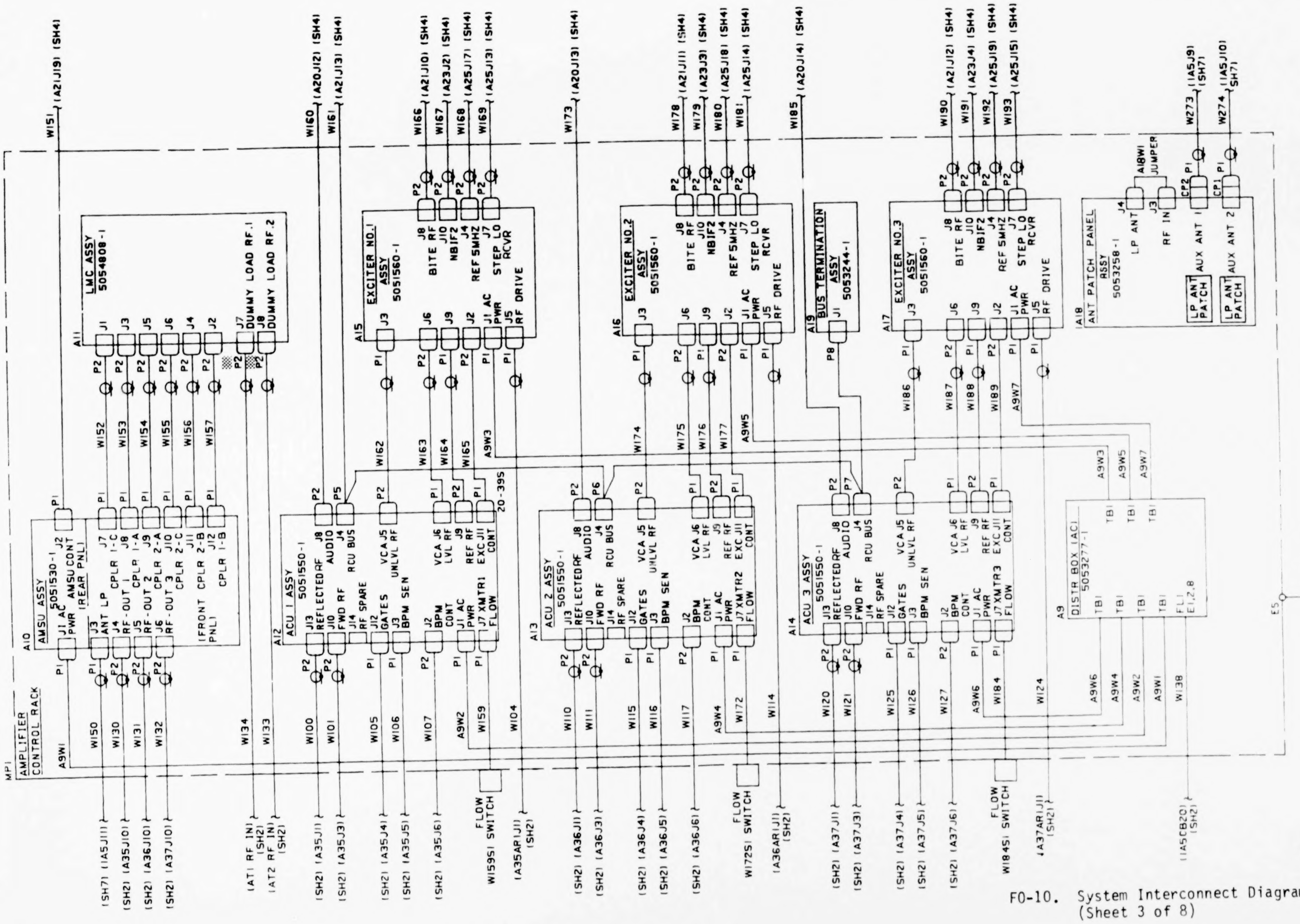

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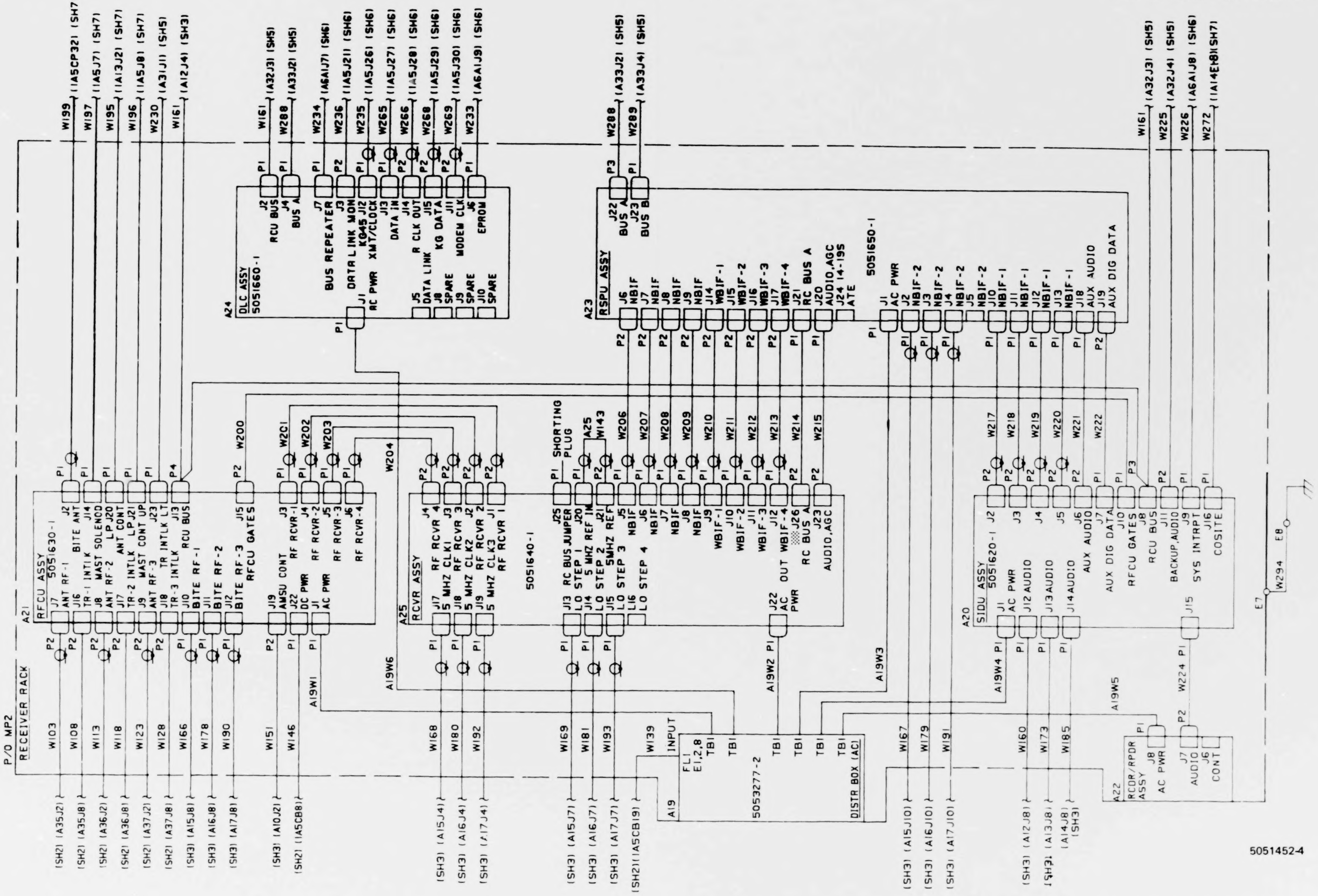

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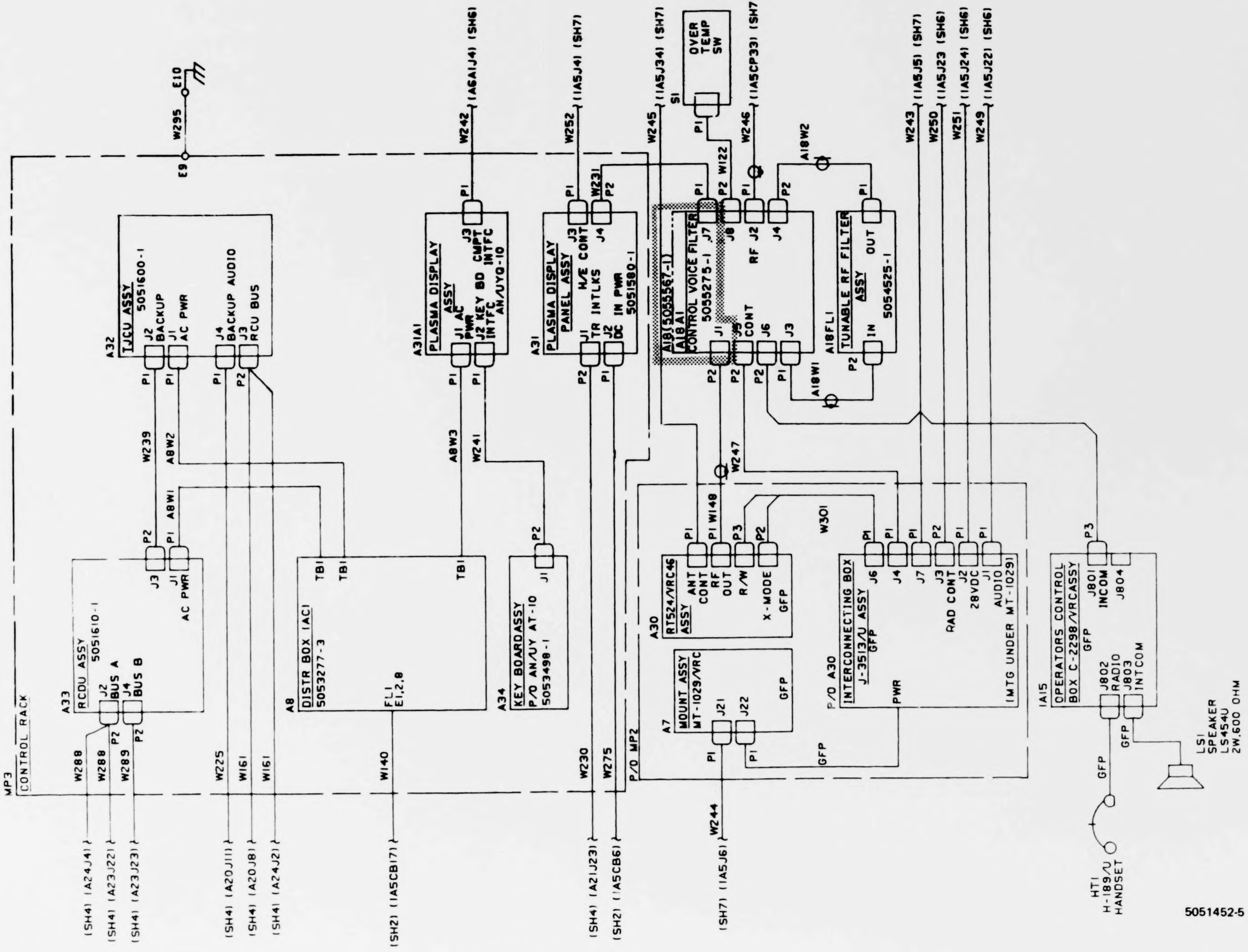

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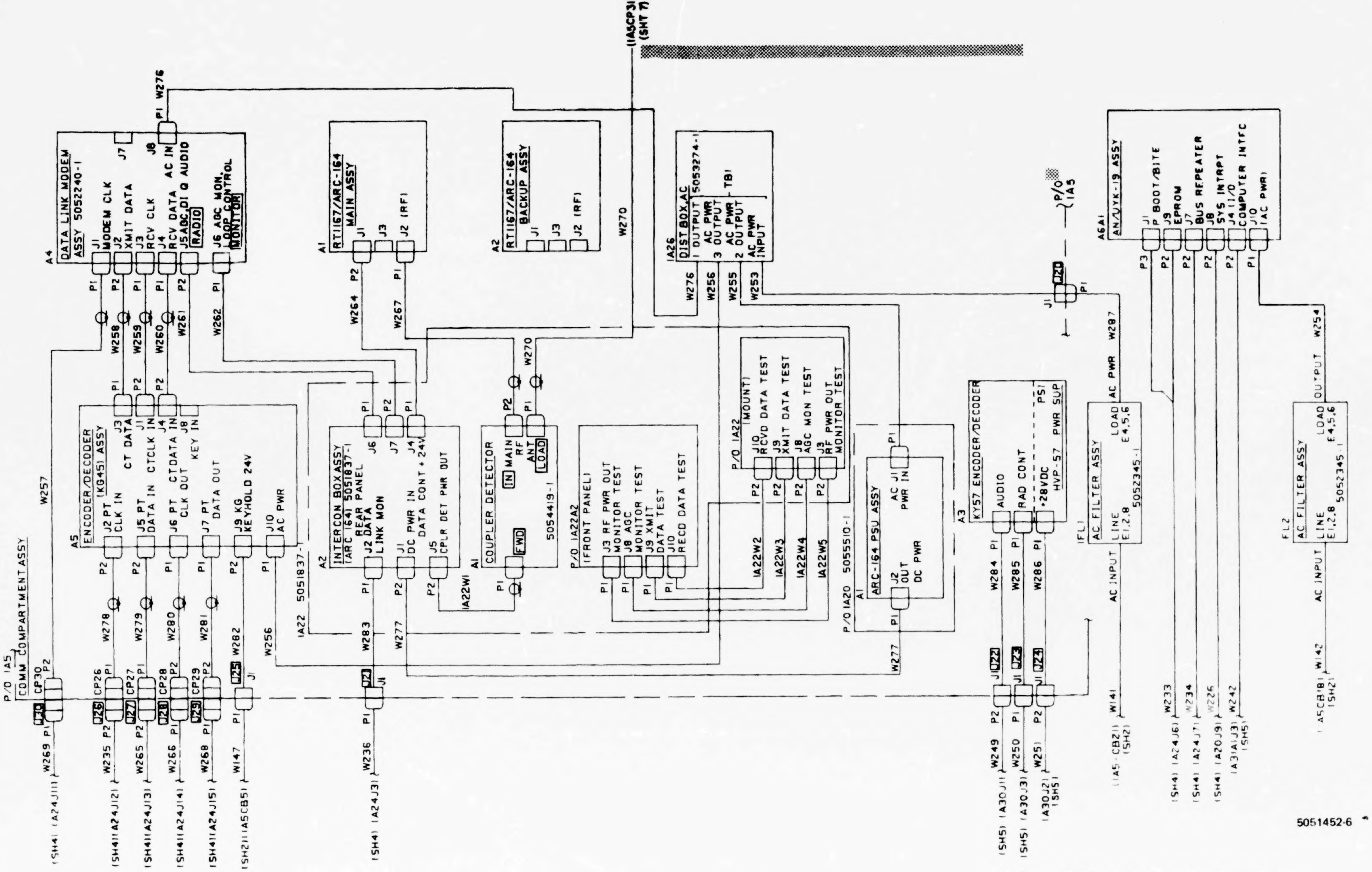

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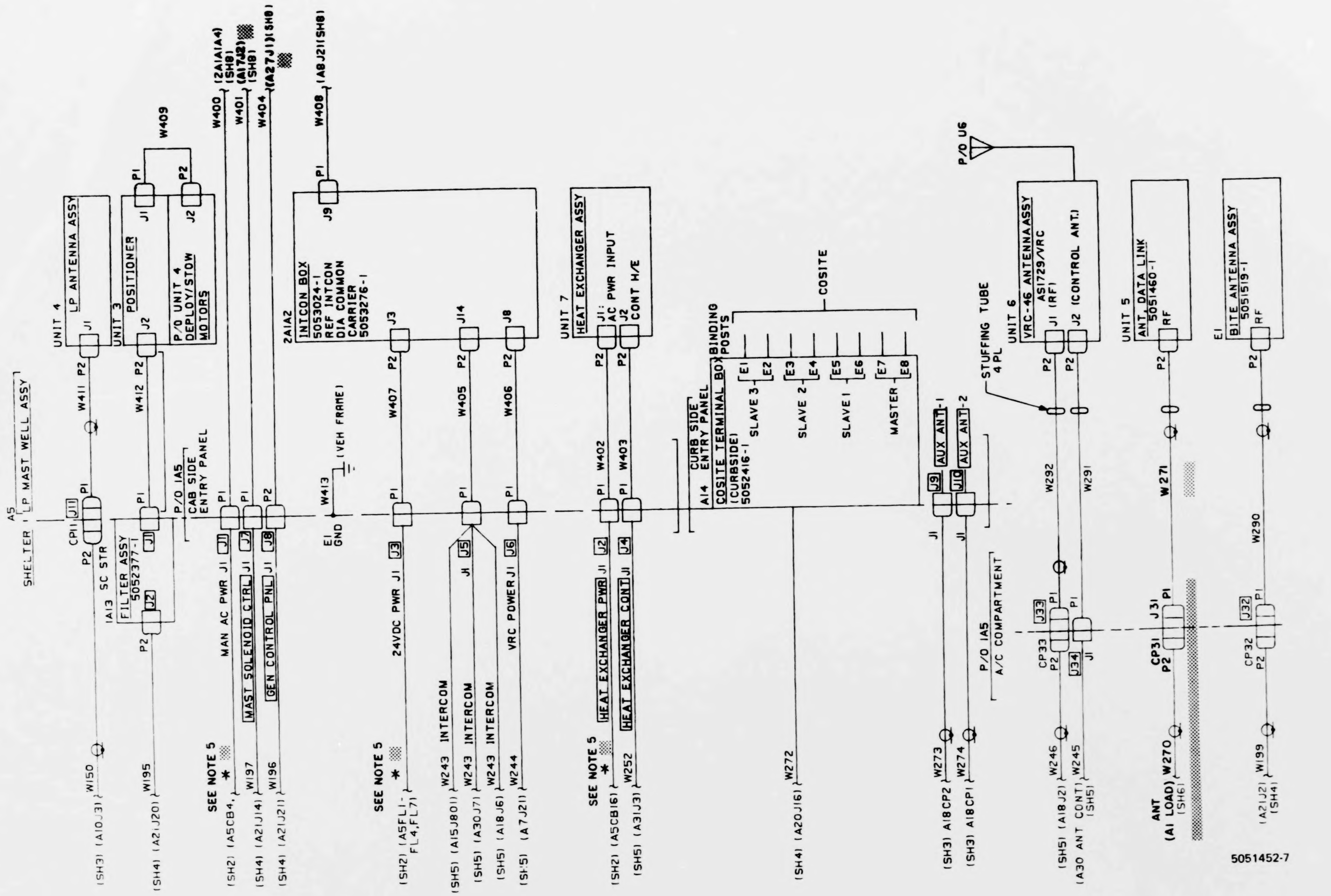

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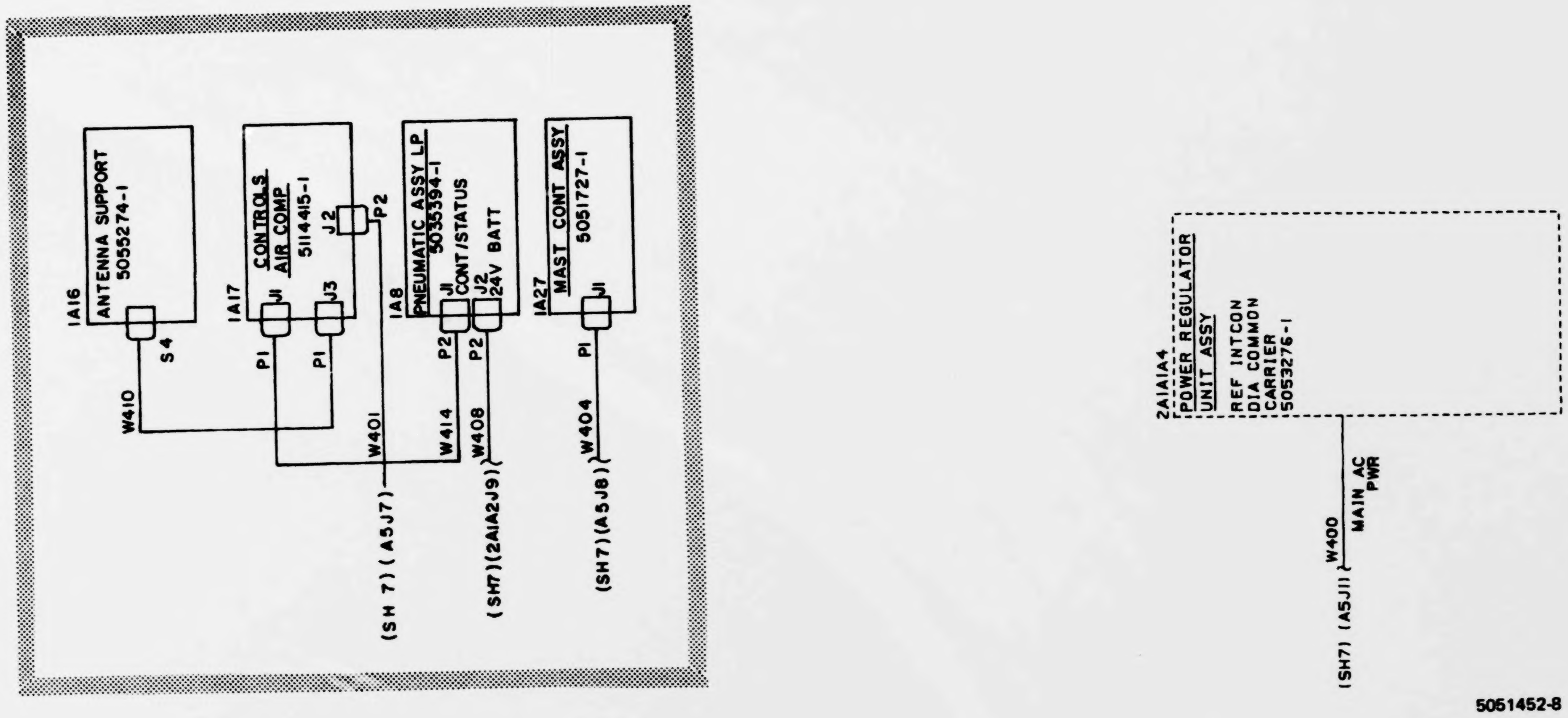

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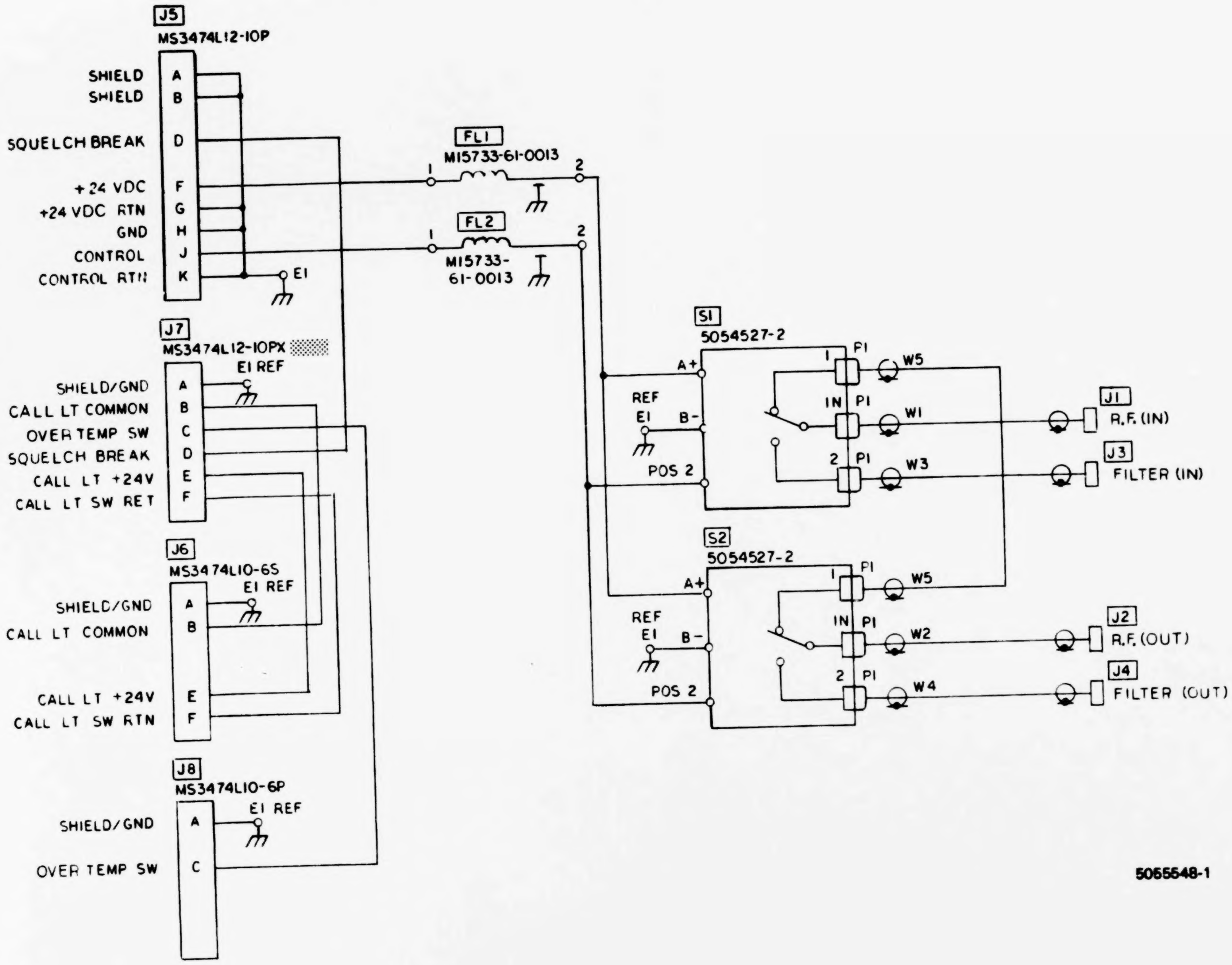

FO-11. Voice Filter Control, Schematic Diagram (Sheet 1 of 2)

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